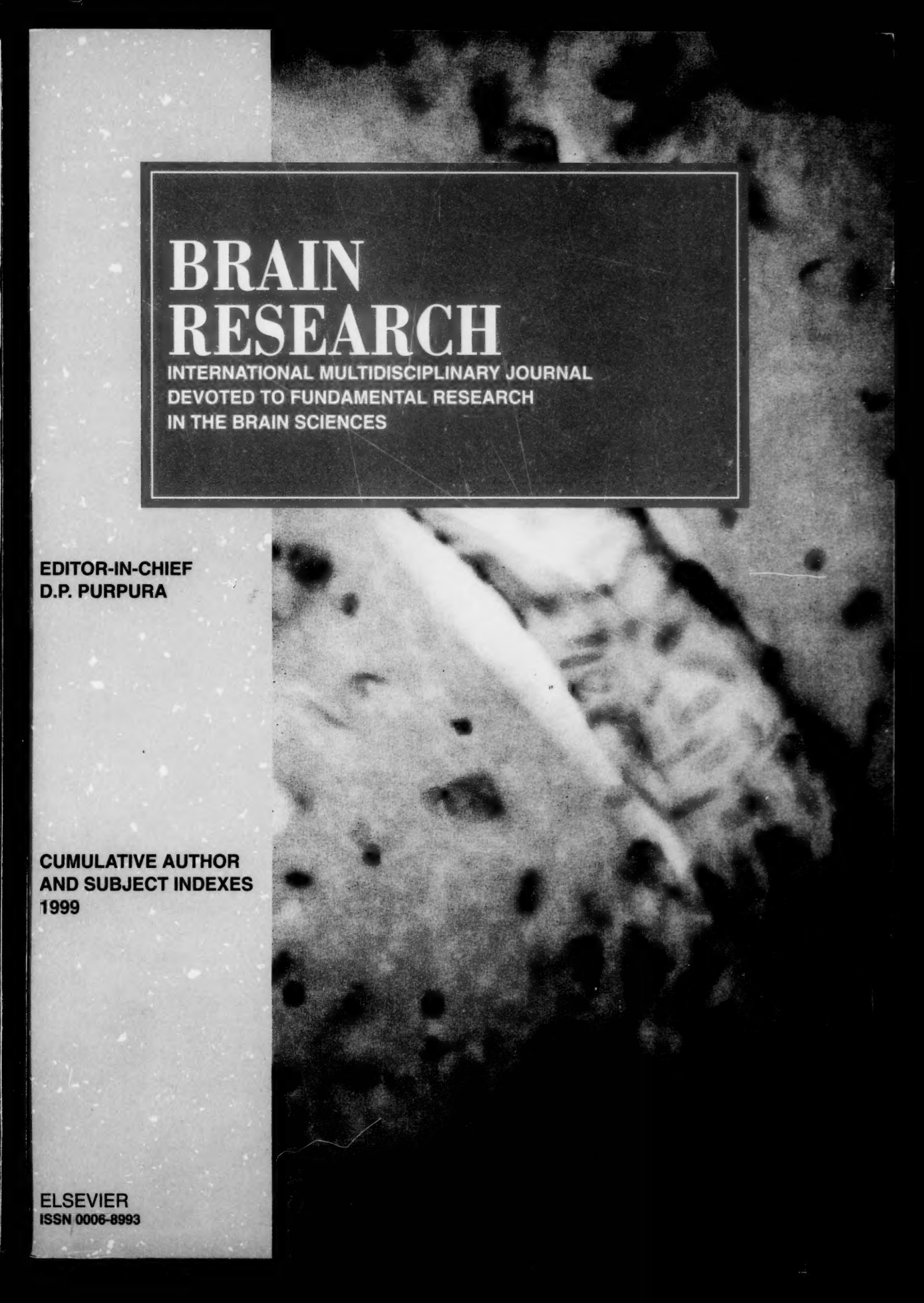

BRAIN RESEARCH

INTERNATIONAL MULTIDISCIPLINARY JOURNAL
DEVOTED TO FUNDAMENTAL RESEARCH
IN THE BRAIN SCIENCES

EDITOR-IN-CHIEF
D.P. PURPURA

CUMULATIVE AUTHOR
AND SUBJECT INDEXES
1999

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Brain Research Vols. 851–886 (36 volumes in 72 issues)* weekly	**Molecular Brain Research** Vols. 74–85 (12 volumes in 24 issues) * monthly	**Developmental Brain Research** Vols. 119–125 (7 volumes in 14 issues) monthly	**Brain Research Reviews** Vols. 32–34 (3 volumes in 9 issues)	**Cognitive Brain Research** Vols. 8–9 (2 volumes in 6 issues) *	**Brain Research Protocols** Vols. 5 and 6 (2 volumes in 6 issues)

* Please note that Volumes 851 (Issues no. 1 and 2) of **Brain Research,** Volume 74 (Issues no. 1 and 2) of **Molecular Brain Research** and Volume 8 (Issues no. 1, 2 and 3) of **Cognitive Research Protocols** were published ahead of schedule in 1999, in order to reduce publication time. The volumes remain part of the 1999 subscription year.

We apologize for the inconvenience these changes in schedule may cause.

Subscribers to the journal or its sections should note that the section titles are now prefixed with the main journal title in order to facilitate cataloguing. All sections should therefore be indexed under **Brain Research**.

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Please note that the above schedule differs slightly from the actual 1999 publication schedule:

Volume 851 of **Brain Research,** Volume 74 of **Molecular Brain Research** and Volume 8 of **Cognitive Brain Research** belong to the 2000 subscription year but were published in 1999 and have been indexed in the present index.

Volume 31 of Brain Research Reviews was delayed and will be indexed in the 2000 index.

The Editor and Publisher of Brain Research welcome any comments on the usefulness of this index as well as suggestions of improvements.

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Ischemia; Anoxia; Tolerance; Hippocampus (Pérez-Pinzón, M.A. (833) 20)

A1 receptor; Trout brain synaptosome; Glutamate release (Poli, A. (837) 46)

PD 81,723; A_1 receptor; Allosterism; Adipocyte (Jarvis, M.F. (840) 75)

Chick; Brain slice; Passive avoidance learning; Adenosine A_1 receptor; Adenosine A_2 receptor (Daisley, J.N. (847) 149)

A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

Adenosine A_1 receptor
Adenosine; Chick; Brain slice; Passive avoidance learning; Adenosine A_2 receptor (Daisley, J.N. (847) 149)

Adenosine A_2 receptor
Adenosine; Chick; Brain slice; Passive avoidance learning; Adenosine A_1 receptor (Daisley, J.N. (847) 149)

Adenosine A_2 receptors
Huntington's disease; EEG (Reggio, R. (831) 315)

Adenosine 3′,5′-cyclic monophosphate
Circadian oscillator; Output pathway; Melatonin; Retinal photoreceptor layer; *Xenopus laevis* (Hasegawa, M. (824) 161)

Adenosine 5′-triphosphate
Adenosine; Ischemia; Nitric oxide (Jurányi, Z. (823) 183)

Adenosine triphosphate
Astrocytes; MPTP; MPP^+; Reactive oxygen species; Superoxide dismutase (Wong, S.S. (836) 237)

Adenoviral vector
Adult derived astrocyte; Transplant; Parkinson's disease (Ljungberg, M.C. (816) 29)

Adenylate cyclase
Cyclic AMP; Circadian; Protein kinase A; Rhythm; Suprachiasmatic (Lee, J.M. (835) 350)

GTPase; Amyloid β-peptide; Alzheimer's disease (Soomets, U. (850) 179)

Adenylyl cyclase
Progesterone receptor; Neuroactive steroid; Neocortex; Female rat; Protein kinase A (Al-Dahan, M.I. (824) 258)

Alzheimer's disease; G-protein; Signal transduction; Autoradiography; [^{3}H]Forskolin; Guanylyl-5′-imidodiphosphate; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

Adenylyl cyclase activity
5-HT receptor; 5-HT_{1A} receptor; Rat and human brain postmortem (Palego, L. (816) 165)

Adenylyl cyclase isoform
Cyclic AMP; FlCRhR fluorescence; Myenteric ganglia; Calbindin-D_{28} immunoreactive myenteric neuron; AH/Type 2 neuron; Enteric glia (Liu, C.Y. (826) 253)

ADF
Developing chick brain; G-actin; β-thymosin; Cofilin; Profilin (Devineni, N. (823) 129)

Aδ fiber
Muskrat; Anterior ethmoidal nerve; C-fiber; Diving response; Cardiorespiratory reflex (McCulloch, P.F. (830) 24)

Adipocyte
Body weight; Hyperphagia; Paraventricular nucleus; Insulin (Dube, M.G. (816) 38)

Adenosine; PD 81,723; A_1 receptor; Allosterism (Jarvis, M.F. (840) 75)

Adolescence
Gender-specific nicotine effect; Membrane protein; Nicotine; Nicotinic cholinergic receptor (Trauth, J.A. (851) 9)

ADP–ribosyl cyclase
CD38; Retina; Ganglionic layer; Inner nuclear layer (Khoo, K.M. (821) 17)

Adrenalectomy
Chronic stress; HPA axis; Pituitary; Hypothalamus (Martí, O. (821) 1)

Corticosteroid; GIRK; Corticosterone; Hippocampus; Rat; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Masseter; Vagotomy; Orofacial pain; Rat (Imbe, H. (845) 165)

Corticosterone; Corticosteroid receptor; Western blotting; Rat (Deak, T. (847) 211)

Hippocampus; Nerve degeneration; Apoptosis; Necrosis (Islam, A. (849) 226)

Adrenal gland
Neurotrophic factor; NTN; Expression; Gut; Ovary (Xian, C.J. (835) 247)

Voltage-dependent Ca^{2+} channel; α_{1A} subunit; Transcriptional regulation; Transgenic mice; Brain (Takahashi, E. (850) 47)

Adrenaline
SIF cell; Pelvic ganglion; Catecholamine synthesizing enzyme; Acetylcholine; Muscarinic receptor (Prud'homme, M.-J. (821) 141)

Adrenergic
Imidazoline; Sodium appetite; Water intake; Dehydration (Sugawara, A.M. (839) 227)

α_1-Adrenergic receptor
Angiotensin II type 2 receptor; Anxiogenic behavior; Mouse; Corticotropin-releasing factor; Amygdala (Okuyama, S. (821) 150)

α_2-Adrenergic receptor
Pain; TNF; Norepinephrine; Microinfusion; Hippocampus (Ignatowski, T.A. (841) 70)

α_1 Adrenoceptor
Stress; mRNA; Hypothalamus; Midbrain; Reverse transcriptase–polymerase chain reaction; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

Adrenocorticotropin
Oxytocin; Hypothalamus; HPA axis; Development; Sheep (Matthews, S.G. (820) 92)

Adrenomedullin
Salt appetite; Antisense (Samson, W.K. (818) 164)

Adsorptive endocytosis
Blood–brain barrier; AIDS; Efflux; Lymphatics; Pharmacokinetics (Cashion, M.F. (822) 26)

Adult derived astrocyte
Transplant; Adenoviral vector; Parkinson's disease (Ljungberg, M.C. (816) 29)

Adult gonadectomy
Pain; Antinociception; Morphine; Sex difference (Krzanowska, E.K. (821) 224)

Adult rat
Bcl-2; Bax; Neuronal cell death; Axotomy; Hypoglossal nerve; Apoptosis (Baba, N. (827) 122)

Opioid-binding cell adhesion molecule; OB-CAM; Distribution; Localization; Immunostaining (Hachisuka, A. (842) 482)

Adult skeletal muscle
Calcitonin gene-related peptide; Acetylcholinesterase molecular forms; Trophic control; Neuromuscular junction (Fernandez, H.L. (844) 83)

AF64A
Acetylcholine; $GABA_A$ receptor; $GABA_B$ receptor; Rat; Striatum (Ikarashi, Y. (816) 238)

Afferent
AMPA; Vestibular end organ; Neurotransmitter; Immunocytochemistry; Rat (Matsubara, A. (819) 58)

Afferent integration
Respiratory control; Superior laryngeal nerve; Pre-Bötzinger complex; Cat (Anderson, M.K. (831) 306)

Afferent type
Ectopic firing; Nerve injury; Neuroma; Neuropathic pain (Tal, M. (824) 218)

A fiber
C fiber; Topographical mapping; Nociception; Somatosensory function; Electrical stimulation (Shaw, F.-Z. (824) 183)

African sleeping sickness
Glia; Hypothalamus; Sleep; Immune response; Cytokine; Infections of the nervous system (Chianella, S. (832) 54)

Afterpotentials
EPSP; Antidromic; CA1; Cyclohexyladenosine; 8-Cyclopentyltheophylline (Fowler, J.C. (837) 309)

ω-Agatoxin IVA (ω-Aga-IVA)
P/Q-type Ca^{2+} channel; α-Eudesmol; Synaptosome; Cerebellar Purkinje cell; NG108-15 cell (Asakura, K. (823) 169)

Age
t-PA; u-PA; Middle cerebral artery occlusion; Mouse (Ahn, M.Y. (833) 112)

Hippocampus; Senescence-accelerated mouse; Calcium pump; Protein kinase; Calbindin (Armbrecht, H.J. (842) 287)

Age-related change
Phosphorylated tau; Anti-phosphorylated tau antibody; Facial nucleus; Lateral cerebellar nucleus; Groggy rat (Takeuchi, I.K. (831) 292)

Aggregate cell culture
Ischemia; Hypoxia; GABAergic interneuron; Cholinergic neuron; Selective vulnerability (Pardo, B. (818) 84)

Aggression
Knock-out mouse; MAO-deficient mouse; Monoamine oxidase; VMAT2; 5-HT_{2A} receptor (Shih, J.C. (835) 104)

Corticotropin-releasing factor; Social stress; Agonistic behavior (Jasnow, A.M. (846) 122)

Aging
Mouse; Brain; Angiotensin receptor; Dopamine; Ethanol (Daubert, D.L. (816) 8)

Dopamine; Intracranial microdialysis; Fischer 344 rat; D-Amphetamine; Potassium; Basal level; Striatum (Gerhardt, G.A. (816) 68)

Arginine-vasopressin; Vasopressin; Circadian rhythm; Common vole; Suprachiasmatic nucleus (Van der Zee, E.A. (816) 572)

Cerebral cortex; Magnetoencephalography; Gender; Sex; SEF; SEP; Evoked response (Huttunen, J. (818) 196)

Corticotropin-releasing factor; Stress; Rat; Brain; Messenger RNA (Kasckow, J.W. (822) 228)

Arginine–vasopressin; Stress; Rat; Brain; Corticosterone; ACTH; Corticotropin-releasing factor (Mulchahey, J.J. (822) 243)

Substance P; Nucleus of the solitary tract; Respiration; NK1 receptor; Autoradiography (Mazzone, S.B. (826) 139)

Norepinephrine transporter; Tyrosine hydroxylase; Locus coeruleus; Brown–Norway rat (Shores, M.M. (826) 143)

Mastication; Hippocampus; Neuronal degeneration; Learning and memory (Onozuka, M. (826) 148)

Spatial learning; Corticosterone; Fischer-344 × Brown Norway rat; Hippocampus; Memory (Hebda-Bauer, E.K. (827) 93)

Serotonin receptor; Suprachiasmatic nucleus; Intergeniculate leaflet; Lateral geniculate nucleus; Raphe nuclei; Circadian rhythm (Duncan, M.J. (829) 39)

Alzheimer's disease; Biondi ring tangle; Choroid plexus (Wen, G.Y. (832) 40)

Parallel fiber; Granule cell; Cerebellum; Cerebellar (Huang, C.-m. (840) 148)

Morris water maze; GPI 1046; Immunophilin (Sauer, H. (842) 109)

N-Acetylcysteine; Thiol; Cytochrome *c* oxidase; Mitochondria; Complex IV (Martínez Banaclocha, M. (842) 249)

Cathepsin B; Cathepsin D; Cerebral cortex; Degenerating cell; Ultrastructural location (Jung, H. (844) 43)

Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

Oligemic episode; Dopamine; D1RmRNA; Striatum; Apomorphine (Heim, C. (851) 235)

Agnathan
Octavolateral center; Mesencephalon; Nerve projection; Tract tracing; Horseradish peroxidase; Carbocyanine; Brain (González, M.J. (826) 83)

Agonist
A_1 adenosine receptor; Receptor regulation; Antagonist; Epidermal growth factor; Pituitary cell (Navarro, A. (816) 47)

Agonistic behavior
Corticotropin-releasing factor; Social stress; Aggression (Jasnow, A.M. (846) 122)

Agouti-related protein (AgRP)
Neuropeptide Y (NPY); Melanocortin-4 receptor (MC4R); NPY-deficient mice; MC4R-deficient mice; Hypothalamus; Feeding behavior (Marsh, D.J. (848) 66)

Agrin
Acetylcholine receptor; Neuromuscular junction; Dystrophin; Muscle regeneration; Satellite cell (Kong, J. (839) 298)

AH / Type 2 neuron
Adenylyl cyclase isoform; Cyclic AMP; FlCRhR fluorescence; Myenteric ganglia; Calbindin-D_{28} immunoreactive myenteric neuron; Enteric glia (Liu, C.Y. (826) 253)

AIDS
Blood–brain barrier; Adsorptive endocytosis; Efflux; Lymphatics; Pharmacokinetics (Cashion, M.F. (822) 26)

HIV; Central nervous system; Astrocytes; Receptor; Endocytosis (Hao, H.-N. (823) 24)

Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; Rolipram (Yirmiya, R. (829) 28)

Dementia; Sleep; Visual evoked potential; Auditory evoked potential (Prospéro-García, O. (836) 203)

AII amacrine
NBQX; Rabbit retina; DNQX; Excitatory amino acid receptor (Cohen, E.D. (831) 206)

Akinesia
Parkinson's disease; Reaction time; Simple reaction time; Choice reaction time; Bradykinesia (Kutukcu, Y. (815) 367)

[D-Ala^2,Glu^4]deltorphin
Supraspinal/spinal synergy; δ-Opioid agonist; Rostral–ventral medulla; [D-Pen^2,D-Pen^5]enkephalin; Antinociception (Kovelowski, C.J. (843) 12)

Ala-pyrrolidonyl-2-nitrile
Endomorphin-2; Dipeptidyl peptidase IV; D-Pro^2-endomorphin-2; Naltrexone; Pain; Analgesia (Shane, R. (815) 278)

Albumin
Global cerebral ischemia; Neuroprotection; Stroke (Belayev, L. (845) 107)

Alcohol
Nucleus accumbens; Addiction; Self-administration; Striatum; Basal ganglia; Rat; In vivo electrophysiology; Ensemble (Janak, P.H. (817) 172)

Purkinje neuron; Cerebellum; AMPA; Intracellular calcium; Culture (Netzeband, J.G. (826) 270)

Aldosterone
Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Alerting response
Pain stimulation; Trigeminal depressor response; Skin vasomotor reflex; Skin blood flow (Nalivaiko, E. (847) 343)

Alkylation
Autoradiography; D_3 and D_2 dopamine receptor; EEDQ; NIPS (Zhang, K. (847) 32)

Allatotropin
Neuropeptide; Tachykinin-related peptide; FMRFamide; Insect nervous system; Sensory neuron (Persson, M.G.S. (816) 131)

Allethrin
Temperature effect; Tail current; Dorsal root ganglion neuron; Tetrodotoxin-sensitive sodium channel; Tetrodotoxin-resistant sodium channel (Ginsburg, K. (847) 38)

Allodynia
Neuropathic pain; Chronic constriction injury; Plasticity; Transganglionic axonal tracer (Nakamura, S.-i. (818) 285)

Nerve injury; Supraspinal/spinal synergy; Morphine; Dynorphin; MK-801 (Bian, D. (831) 55)

Diabetes; Calcium; Hyperalgesia; Ryanodine; Thapsigargin; Spinal cord (Ohsawa, M. (833) 278)

Inflammation; Opioid mechanisms; Morphine (Panula, P. (848) 191)

Allometry
Corpus callosum; Hippocampal commissure; Anterior commissure; Cerebral cortex; Morphometry (Bishop, K.M. (815) 358)

Allopregnanolone
Neurosteroid; Alphaxalone; Oocyte; Recombinant $GABA_A$ receptor; Voltage-clamp (Maitra, R. (819) 75)

Neurosteroid; $GABA_A$ receptor; Dehydroepiandrosterone sulfate; Pregnanolone (Park-Chung, M. (830) 72)

Allosterism
Adenosine; PD 81,723; A_1 receptor; Adipocyte (Jarvis, M.F. (840) 75)

Alpha-2 adrenergic
Rat; Locus coeruleus; Dexmedetomidine; Atipamezole; Nitric oxide-cGMP system; Sedation (Vulliemoz, Y. (849) 169)

Alpha-adrenergic receptor
Cardiovascular regulation; Limbic system; Noradrenaline; Beta-adrenergic receptor (Roder, S. (818) 531)

Alpha adrenoceptor
Diabetes mellitus; Spinal cord; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol (Bitar, M.S. (830) 1)

Alpha-herpes virus
Autonomic control; Visceral neuraxis; Sympathetic nervous system (Huang, J. (845) 77)

Alpha rhythm
Forced oscillation; Human electroencephalogram; Spectral analysis; Time series analysis (Gebber, G.L. (818) 556)

Alphaxalone
Neurosteroid; Allopregnanolone; Oocyte; Recombinant $GABA_A$ receptor; Voltage-clamp (Maitra, R. (819) 75)

Alprazolam
$GABA_A$; In situ hybridization; Anxiety; Punishment; Behavior (Liu, M. (882) 8)

ALS
Axonal transport; SOD1; Transgenic mouse; Kinesin; Dynein (Warita, H. (819) 120)

Alteration
Deprivation; Intracerebroventricular; Substance P; Food intake (Dib, B. (830) 38)

Alternative splicing
Chronic ethanol; Withdrawal; NMDA receptor; Cerebral cortex; Rat (Hardy, P.A. (819) 33)

Aluminum
Cerebellar granule neuron; Neurotoxicity; Apoptosis; Neuroglial culture; Astroglial culture (Suárez-Fernández, M.B. (835) 125)

Iron; Ferrous ion; β-Amyloid; Ascorbic acid; Free radical; Alzheimer's disease; Bathophenanthroline (Yang, E.Y. (839) 221)

Alzheimer
Apoptosis; Calorie restriction; Excitotoxicity; Hydroxynonenal; Kainate; Oxidative stress (Zhu, H. (842) 224)

Alzheimer's disease
Rat; Brain inflammation; Nonsteroidal anti-inflammatory drug (NSAID); Microglia; Lipopolysaccharide (Hauss-Wegrzyniak, B. (815) 36)

Cell cycle; Grb2; Signal transduction; SOS-1 (McShea, A. (815) 237)

Presenilin-1; Intronic polymorphism (Liao, A. (816) 295)

3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; Locus ceruleus; Neuron death (Burke, W.J. (816) 633)

Acetylcholine; 192 IgG-saporin; Basal forebrain; Cerebral circulation (Waite, J.J. (818) 1)

Cerebellum; Atrophy; Neuronal loss; Morphometry; Clinicopathological correlation (Wegiel, J. (818) 41)

β-amyloid; Blood–brain barrier; Microglia; Astrocytes; Hemorrhage (Su, G.C. (818) 105)

Autoradiography; cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Hippocampus; Neuropathological change; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

Tocopherol transfer protein; Ataxia with vitamin E deficiency; Familial isolated vitamin E deficiency; Vitamin E; Down's syndrome; Cholestatic liver disease; Abetalipoproteinemia (Copp, R.P. (822) 80)

Amyloid beta peptide; Cultured neuron; Na^+/K^+ ATPase; Zinc (Lovell, M.A. (823) 88)

Diagnosis; CSF (Hampel, H. (823) 104)

Amyloid β precursor protein; Cerebral amyloid angiopathy; In situ hybridization; HCHWA-D (Natté, R. (828) 179)

Bleomycin hydrolase; Protease; Senile plaque; Immunohistochemistry (Namba, Y. (830) 200)

Tau; PHF; Glycation (Ko, L.-w. (830) 301)

Aging; Biondi ring tangle; Choroid plexus (Wen, G.Y. (832) 40)

Apolipoprotein E; Receptor; Cytoplasmic puncta (Motoi, Y. (833) 209)

MHC-II; NO; β-amyloid; Astrocyte; Microglia (Pazmany, T. (835) 213)

Acetylcholine; $Serotonin_{1A}$ receptor; $Serotonin_2$ receptor; Spatial navigation; EEG (Dringenberg, H.C. (837) 242)

Aluminum; Iron; Ferrous ion; β-Amyloid; Ascorbic acid; Free radical; Bathophenanthroline (Yang, E.Y. (839) 221)

β-Amyloid; Amyloid precursor protein; Paired-pulse facilitation; Transgenic; Long-term potentiation; CA1 (Larson, J. (840) 23)

Antichymotrypsin; Interleukin-1; S100; Butyrylcholinesterase; Nitric oxide synthase (Hu, J. (842) 46)

Beta-amyloid; Apoptosis; Caspase; Cortical neuron (Harada, J. (842) 311)

Apolipoprotein E; β-Amyloid (Beffert, U. (843) 87)

BDNF; Hormone replacement; Estradiol; Hippocampus; Cognition (Gibbs, R.B. (844) 20)

Melanotransferrin; Brain; Liver; mRNA (Yamada, T. (845) 1)

cAMP; cGMP; Tau protein; Cerebrospinal fluid (Martínez, M. (846) 265)

Basal forebrain; Cholinergic; Ovariectomy; Gonadal; Steroids (Mufson, E.J. (849) 253)

Adenylyl cyclase; G-protein; Signal transduction; Autoradiography; [^{3}H]Forskolin; Guanylyl-5′-imidodiphosphate; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

GTPase; Adenylate cyclase; Amyloid β-peptide (Soomets, U. (850) 179)

Protein kinase C; Protein kinase M phosphorylation; Calpain; MAP kinase; Tau; Paired helical filaments; Signal transduction (Ekinci, F.J. (850) 207)

Amacrine cell
Rana pipiens; Retina; Immunocytochemistry; Dopamine; Tyrosine hydroxylase; Neurotransmitter (Kicliter, E. (816) 149)

Amelioration
ICSS-experience; Fornix lesioning; Hippocampus; Operant and Spatial learning (Yoganarasimha, D. (845) 246)

Amiloride
Cardiac arrest; Resuscitation; Cerebral blood flow; Hyperemia (Lauro, K.L. (831) 64)

Amino acid
Glutamate; Spreading depression; Blood flow; Cerebral cortex (Iijima, T. (818) 553)

Passive avoidance learning; Rat; Sepsis; Serotonin (Shimizu, I. (830) 94)

Microdialysis; Glutamate; Stress (Timmerman, W. (833) 150)

Cerebral ischemia; Glutamate; Arachidonic acid; Free fatty acid; Glucose; Hyperglycemia; Cerebral cortex; Rat (Phillis, J.W. (837) 177)

Pinealocyte; Double-labeling; Vimentin; Synaptic-like microvesicle; Paracrine communication (Pabst, H. (838) 60)

Melittin; Phospholipase A_2; Free fatty acid; Glutamate; Arachidonic acid; Cerebral cortex (Phillis, J.W. (847) 270)

Amino acid release
Cerebral ischemia; Swelling; Volume regulation; Glutamate; GABA; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

Amino acids
Stress; Food deprivation; Memory; Object recognition; Monoamines (Beck, K.D. (830) 56)

γ-Aminobutyric acid
Polyamine; *N*-Acetylpolyamine; Kindling; Seizure; Pentylenetetrazol (Hayashi, Y. (828) 184)

Cerebral ischemia; Neuroprotection; Hypothermia; CA1 (Dowden, J. (829) 1)

Circadian rhythm; Suprachiasmatic nucleus; GABA; Tetrodotoxin; Muscimol; Rat; Brain slice (Bergeron, H.E. (841) 193)

Monoamine; Ventromedial nucleus; Paraventricular nucleus; Feeding behavior; Energy balance (Ohtani, N. (842) 6)

Acetylcholine; Aversive conditioning; Hippocampus; Memory; Mouse; Retention; Septum; Serotonin (Farr, S.A. (847) 221)

γ-Aminobutyric acid, GABA
Circadian rhythm; Suprachiasmatic nucleus; Neuropeptide Y, NPY; Baclofen; Rat, brain slice (Biggs, K.R. (821) 461)

γ-Aminobutyric $acid_A$ receptor
Postnatal ethanol treatment; Neuronal development; Cerebellum; Purkinje neuron; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (832) 124)

γ-Aminobutyric acid receptor / channel
Seizure; Whole cell $GABA_A$ current; Patch clamp; Freshly isolated neuron (Ye, J.H. (821) 26)

γ-Aminobutyric acid release
β(1–40); Glutamic acid decarboxylase activity; Microglia (Scali, C. (831) 319)

Aminoglycoside
Excitotoxicity; NMDA receptor; Ototoxicity; Neomycin; Polyamine (Segal, J.A. (815) 270)

Apoptosis; Cytochrome *c*; Mitochondria; Vestibular hair cell (Nakagawa, T. (847) 357)

α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid
Nucleus tractus solitarius; Nodose ganglion; Hypertension; Autoradiography; (*S*)-[^{3}H]-5-Fluorowillardiine (Ashworth-Preece, M.A. (834) 186)

Aminopeptidases N and A
Pericytes; Periendothelial cells; Brain parenchyma vessels; Mouse; Angiotensin (Alliot, F. (830) 101)

L(+)-2-Amino-4-phosphonobutyric acid
Electrical kindling; Dentate gyrus; Extracellular field potential; Group III mGluR (Friedl, M. (821) 117)

4-Aminopyridine
Kv1.4 potassium channel; Fast inactivation gate; L4 heptad leucine; Mutagenesis; N-terminus deletion (Judge, S.I.V. (831) 43)

Global ischemia; Synaptic transmission; Potassium channel; Electrophysiology (Zhang, L. (832) 31)

21-Aminosteroid
Antioxidant; Ischemia–reperfusion; Neuroprotection; Oxygen free radical; Pyrrolopyrimidine (Schmid-Elsaesser, R. (816) 471)

Wobbler mouse; GAP-43 mRNA; Glucocorticoid; Amyotrophic lateral sclerosis; Spinal cord; In situ hybridization (González Deniselle, M.C. (841) 78)

Reactive oxygen species; Stobadine; Trolox; α-Tocopherol; Deferoxamine; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Aminotetralin
Autoradiography; Catecholamine; Dopamine; Histamine; Phenylaminotetralin; Sigma; Tyrosine hydroxylase (Booth, R.G. (837) 95)

Amitriptyline
Antidepressant; $GABA_A$ receptor; $^{36}Cl^-$ influx; Recombinant WSS-1 cell; HEK-293 cell (Malatynska, E. (851) 277)

Ammonium prepulse technique
Intracellular pH; Epilepsy; Excitability; Hippocampal slice (guinea pig) (Bonnet, U. (840) 16)

cAMP
Cyclic nucleotide-gated channel; cGMP; Thermosensation; Chemosensation; *Caenorhabditis elegans* (Komatsu, H. (821) 160)

Vomeronasal organ; IP_3; Urine; G_i; G_o (Sasaki, K. (823) 161)

Nitric oxide; cGMP; Hair cell; Vestibular; Cuttlefish (Tu, Y. (845) 35)

cGMP; Tau protein; Cerebrospinal fluid; Alzheimer's disease (Martínez, M. (846) 265)

Connexin; Gap junction; Rat carotid body; Cell–cell communication; Primary culture (Abudara, V. (849) 25)

c-AMP
Acetylcholine; Dopamine, D1; Tremor; Parkinson; Motor; Vacuous; Chewing (Mayorga, A.J. (829) 180)

AMPA
Ischemia; Anoxia; Glutamate; NMDA; Neuroprotection (Arias, R.L. (816) 299)

Barbiturate anesthesia; 2,3-Benzodiazepine; Excitatory amino acid; Kainate; Ketamine (Ruiz, A. (818) 421)

Vestibular end organ; Afferent; Neurotransmitter; Immunocytochemistry; Rat (Matsubara, A. (819) 58)

Glutamate; NMDA; Vesicular transmitter release (Gao, F. (821) 487)

Purkinje neuron; Cerebellum; Alcohol; Intracellular calcium; Culture (Netzeband, J.G. (826) 270)

Interleukin-1; Excitotoxicity; Temperature; Fever; Neurodegeneration; Striatum (Grundy, R.I. (830) 32)

Kainic acid; NBQX; Propidium iodide; Neocortex; Striatum (Kristensen, B.W. (841) 143)

AMPA / KAIN receptor
Barrel cortex; Ventrobasal thalamus; Co^{2+}-staining; Intracellular microelectrophysiology (Világi, I. (844) 118)

AMPA receptor
Excitatory amino acid; Amygdala; GABA; Immunogold; Ultrastructure (He, Y. (827) 51)

Spinal cord; NMDA receptor; Glutamate receptor; Type 2 diabetes mellitus; Obese–diabetic mouse (Li, N. (849) 34)

cAMP-dependent protein kinase
Autoradiography; Human brain; Entorhinal cortex; Hippocampus; Alzheimer's disease; Neuropathological change; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

Amphetamine
Drug addiction; Glutamate; Neuropeptide FF; Medial prefrontal cortex; Serotonin (Chen, J.-C. (816) 220)

Dopamine receptor; Stereotypy; Binge; Quinpirole; SKF 82958 (Kuczenski, R. (822) 164)

Sensitization; Gamma-aminobutyric acid; $GABA_A$ receptor; Locomotion; Prefrontal cortex (Gruen, R.J. (825) 180)

Striatum; In situ hybridization; GABA; Neuropeptide; SKF-82958 (Jones, E.A. (836) 99)

Schizophrenia; Ketamine; MK-801; NMDA; Animal model; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Substantia nigra pars reticulata; Movement-related cell; Motor behavior (Gulley, J.M. (845) 68)

Interleukin-6; Sensitization; Locomotion; Schizophrenia; Stress (Zalcman, S. (847) 276)

D-Amphetamine
Dopamine; Intracranial microdialysis; Fischer 344 rat; Potassium; Basal level; Aging; Striatum (Gerhardt, G.A. (816) 68)

Behavioral sensitization; Glucocorticoid receptor; Ginkgo biloba; Quantitative autoradiography; Hippocampus (Trovero, F. (818) 135)

cAMP production
Acute ethanol; Chronic ethanol; Adenosine; Hypothalamic β-endorphin neuron; Hormone secretion (Boyadjieva, N. (824) 112)

Amygdala
Angiotensinogen; Angiotensin II; Transgenic; In situ hybridization; Brain (Yang, G. (817) 123)

Transcription; Coactivator; Cholecystokinin; Hypothalamus; Thalamus; Hippocampus (Strömberg, H. (818) 510)

Angiotensin II type 2 receptor; Anxiogenic behavior; Mouse; α_1-Adrenergic receptor; Corticotropin-releasing factor (Okuyama, S. (821) 150)

Traumatic brain injury; Inducible transcription factor; Rat; Conditioned freezing response; Hippocampus (Abrous, D.N. (826) 181)

rTMS; Receptor autoradiography; NMDA receptors; Serotonin uptake sites; $5\text{-}HT_{1A}$ receptors; Hippocampus; Cortex; Depression (Kole, M.H.P. (826) 309)

Orphanin FQ; Chronic morphine tolerance; Radioimmunoassay; Cerebroventricular perfusate; Periaqueductal gray (Yuan, L. (826) 330)

Excitatory amino acid; AMPA receptor; GABA; Immunogold; Ultrastructure (He, Y. (827) 51)

Medial preoptic area; Sexual experience; D_1 dopamine antagonist; Male sexual behavior; Rat; Fos (Lumley, L.A. (829) 55)

Male rat; Castration; Dopamine; Tyrosine hydroxylase; Medial preoptic area; Nitric oxide synthase; NADPH-d; Paraventricular nucleus; Bed nucleus of stria terminalis (Du, J. (836) 90)

Ventral pallidum; Inferior colliculus; Electrical stimulation; Acoustic startle; Interstimulus interval; Prepulse inhibition (Li, L. (836) 164)

Nucleus tractus solitarius; c-Fos; Learning; Lithium chloride; Aversion conditioning (Cubero, I. (839) 323)

Ventromedial nucleus; Orexin A; Orexin B; Energy balance (Dube, M.G. (842) 473)

Hypothalamo-pituitary-adrenocortical axis; Paraventricular nucleus; Septum; Hippocampus; Suprachiasmatic; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

Bombesin; Feeding; Behavior; Body temperature (Vígh, J. (847) 253)

NK_1 receptor; Substance P; Receptor internalisation; Stress (Smith, D.W. (848) 90)

Dopamine; Catecholamine; Tyrosine hydroxylase; Dopamine-beta-hydroxylase; Parvalbumin (Brinley-Reed, M. (850) 127)

Corticotropin-releasing hormone; Bed nucleus of the stria terminalis; Paraventricular nucleus; Psychological stress (Makino, S. (850) 136)

Amylin
Dexfenfluramine; Postrema (Rowland, N.E. (820) 86)

β-Amyloid
Aluminum; Iron; Ferrous ion; Ascorbic acid; Free radical; Alzheimer's disease; Bathophenanthroline (Yang, E.Y. (839) 221)

Alzheimer's disease; Amyloid precursor protein; Paired-pulse facilitation; Transgenic; Long-term potentiation; CA1 (Larson, J. (840) 23)

Apolipoprotein E; Alzheimer's disease (Beffert, U. (843) 87)

β Amyloid
Neurotoxicity; Vitamin E; Ginkgolide; Apoptosis; Cell death (Yao, Z.-X. (847) 203)

Amyloid beta peptide
Alzheimer's disease; Cultured neuron; Na^+/K^+ ATPase; Zinc (Lovell, M.A. (823) 88)

Amyloid β-peptide
GTPase; Adenylate cyclase; Alzheimer's disease (Soomets, U. (850) 179)

Amyloid β precursor protein
Cerebral amyloid angiopathy; In situ hybridization; HCHWA-D; Alzheimer's disease (Natté, R. (828) 179)

Amyloid β protein
3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay; Cell death; Exocytosis; Oxidative stress; Rat hippocampal neurons (Abe, K. (830) 146)

Amyloid deposit
Autoradiography; cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Hippocampus; Alzheimer's disease; Neuropathological change; Staging (Bonkale, W.L. (818) 383)

Amyloid precursor protein
Neonatal rat; Periventricular leukomalacia; White matter injury; Cerebral hypoperfusion; Cerebral blood flow (Uehara, H. (837) 213)

Alzheimer's disease; β-Amyloid; Paired-pulse facilitation; Transgenic; Long-term potentiation; CA1 (Larson, J. (840) 23)

Metals; Copper; Oxidative stress; Knockout (White, A.R. (842) 439)

Subarachnoid hemorrhage; Cerebral vasospasm; Nitric oxide; Neurological deficit; Animal model (Ryba, M.S. (850) 225)

Amyotrophic lateral sclerosis
Nitric oxide; Nitric oxide synthase; Superoxide dismutase; cGMP; Cerebral cortex; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

RET; GDNFR-α; mRNA; Spinal cord motor neuron (Mitsuma, N. (820) 77)

Antioxidant enzyme; Caloric restriction; Motor neuron; Oxidative stress (Pedersen, W.A. (833) 117)

Insulin-like growth factor-I; Insulin-like growth factor binding protein; Human olfactory epithelium; Idiopathic late onset cerebellar ataxia; Parkinson's disease (Federico, G. (835) 306)

Wobbler mouse; GAP-43 mRNA; Glucocorticoid; 21-Aminosteroid; Spinal cord; In situ hybridization (González Deniselle, M.C. (841) 78)

Anaerobic glycolysis
Respiratory inhibition; Astrocyte; BCX-34; Purine nucleoside phosphorylase (Litsky, M.L. (821) 426)

Analgesia
Endomorphin-2; Ala-pyrrolidonyl-2-nitrile; Dipeptidyl peptidase IV; D-Pro^2-endomorphin-2; Naltrexone; Pain (Shane, R. (815) 278)

Flunarizine; Hotplate test; Opioid receptor subtype; Verapamil (Weizman, R. (818) 187)

WIN55,212-2; Tail-flick; CB1 receptor; Rat; Pain; Cannabinoid (Martin, W.J. (822) 237)

Kappa; Opioid; Antisense mapping; $Kappa_1$ receptor; Dynorphin B; α-Neoendorphin (Pasternak, K.R. (826) 289)

Formalin test; Muscarinic receptor; Corticosterone; β-Endorphin; Behavior (Capone, F. (830) 292)

Hyperalgesia; Endomorphin-1; μ-opiate receptor; Orphanin FQ; ORL1 receptor (Wang, Y.-Q. (835) 241)

Morphine; Opioid; Morphine-6-glucuronide (Zuckerman, A. (842) 1)

Calcitonin; Serotonin; 5-HT receptor; Writhing test; Mice (Ormazábal, M.J. (845) 130)

Morphine; Fentanyl; Naloxone-precipitated hyperalgesia; MK-801; NMDA pain facilitatory processes (Célèrier, E. (847) 18)

Opioid; Cannabinoid; Dynorphin; Enkephalin; Endocannabinoid (Welch, S.P. (848) 183)

Morphine withdrawal; Electroacupuncture; Dynorphin; κ-opioid receptor (Wu, L.-Z. (851) 290)

Anandamide
Dorsal rhizotomy; Autoradiography; Deafferentation; Superficial laminae (Hohmann, A.G. (822) 17)

Anaplerotic pathway, Glutamate
^{13}C NMR spectroscopy; [2-^{13}C] Glucose; Glutamine; GABA (Kanamatsu, T. (841) 11)

***Androctonus australis* Hector**
K_{Ca} channel; Rat cerebellum; Charybdotoxin; Noxiustoxin; Scorpion venom (Ottolia, M. (815) 410)

Androgen
Sexual dimorphism; Hippocampus; Dentate gyrus; Androgen insensitivity; *tfm* (Tabibnia, G. (827) 41)

Androgen insensitivity
Sexual dimorphism; Hippocampus; Dentate gyrus; Androgen; *tfm* (Tabibnia, G. (827) 41)

Androgen receptor
Brain; Hypogonadal; Mouse; Regulation; Castration; Testosterone (Apostolinas, S. (817) 19)

Anesthesia
Neural transplantation; Oxidative stress; Lipid peroxidation; Dopamine; Parkinson's disease (Karlsson, J. (821) 546)

Macaque; Somatosensory cortex; Topography; Functional magnetic resonance imaging (Disbrow, E. (829) 167)

Ketamine; Luteinizing hormone; Gonadotrophin-releasing hormone; Pulse generator; Electrophysiology; Thermoregulation; Telemetry (Goubillon, M.-L. (841) 197)

Anesthetic
Dentate gyrus; GABA; Hippocampus; Olfactory cortex; Perforant path; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Intravenous; fentanyl; Brain; ischemia, hypoxia, neuropathology, seizure (Kofke, W.A. (818) 326)

Anesthetic requirement
MAC; Striatum; Dopamine content; In vivo microdialysis (Onozawa, H. (817) 192)

Angiotensin
Pericytes; Periendothelial cells; Brain parenchyma vessels; Mouse; Aminopeptidases N and A (Alliot, F. (830) 101)

Angiotensin (ANG) I
Angiotensin (ANG) II; Angiotensin-converting enzyme (ACE); Converting enzyme inhibitor (CEI); Circumventricular organ; Drinking; Pressor response; Subfornical organ (Robinson, M.M. (842) 55)

Angiotensin (ANG) II
Angiotensin (ANG) I; Angiotensin-converting enzyme (ACE); Converting enzyme inhibitor (CEI); Circumventricular organ; Drinking; Pressor response; Subfornical organ (Robinson, M.M. (842) 55)

Angiotensin-converting enzyme (ACE)
Angiotensin (ANG) I; Angiotensin (ANG) II; Converting enzyme inhibitor (CEI); Circumventricular organ; Drinking; Pressor response; Subfornical organ (Robinson, M.M. (842) 55)

Angiotensin I
SFO; c-*fos*; Drinking; Vasopressin neuron (Xu, Z. (817) 67)

Angiotensin II
Sympathetic discharge; A5; Pons; Noradrenergic neuron; Glutamate (Maiorov, D.N. (815) 227)

Choroid plexus; Sympathetic nervous system; Nitric oxide; Rat (Chodobski, A. (816) 518)

Angiotensinogen; Transgenic; In situ hybridization; Brain; Amygdala (Yang, G. (817) 123)

Expression profiling; Estrogen; Water intake; Subfornical organ; Pituitary (Kisley, L.R. (844) 34)

Calcium channel; Renal function; Gadolinium; Losartan; Zinc; Blood pressure (De Castro-e-Silva, E. (845) 176)

Area postrema; Baroreceptor reflex; Genetic hypertension; Sympathetic nervous system (Matsumura, K. (850) 166)

Angiotensin II receptor expression
In situ hybridization; [^{125}I]Sar^{1}-Ang II; Receptor autoradiography; Hypoxia; Cerebral blood flow; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Angiotensin II type 2 receptor
Anxiogenic behavior; Mouse; α_1-Adrenergic receptor; Corticotropin-releasing factor; Amygdala (Okuyama, S. (821) 150)

Angiotensinogen
Angiotensin II; Transgenic; In situ hybridization; Brain; Amygdala (Yang, G. (817) 123)

Antisense oligonucleotide; Sympathetic nervous system; Paraventricular hypothalamic nucleus; Blood pressure; Vasopressin (Kagiyama, S. (829) 120)

Angiotensin receptor
Mouse; Brain; Dopamine; Aging; Ethanol (Daubert, D.L. (816) 8)

Anhedonia
Benzodiazepine withdrawal; Escape deficit; Depression; Antidepressant (Lacerra, C. (819) 40)

Animal model
Focal cerebral ischemia; Poly-L-lysine; Image-analysis; Mouse (Belayev, L. (833) 181)

Schizophrenia; Ketamine; Amphetamine; MK-801; NMDA; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Subarachnoid hemorrhage; Cerebral vasospasm; Amyloid precursor protein; Nitric oxide; Neurological deficit (Ryba, M.S. (850) 225)

Anoxia
Ischemia; Glutamate; AMPA; NMDA; Neuroprotection (Arias, R.L. (816) 299)

Glutamate; Dialysis electrode; Anoxic depolarization; Exocytosis; Reversed uptake (Satoh, M. (822) 142)

Ischemia; Adenosine; Tolerance; Hippocampus (Pérez-Pinzón, M.A. (833) 20)

Monoamine; Dopamine; Indomethacin; Immature brain; In vivo microdialysis (Ogasawara, M. (842) 487)

Hypothermia; Hyperthermia; Ischemia; Sodium; Potassium; ATP (Amorim, P. (844) 143)

Anoxia / aglycemia
γ-Glutamyl-containing peptide; Acivicin; Cysteine sulfinate; Glutathione metabolism (Li, X. (815) 81)

Anoxic depolarization
Creatine; Phosphocreatine; Hypoxia; Ischemia; Protection; Neuronal damage (Balestrino, M. (816) 124)

Anoxia; Glutamate; Dialysis electrode; Exocytosis; Reversed uptake (Satoh, M. (822) 142)

Transient ischemic depolarization; Spreading depression; Middle cerebral artery occlusion; Rat (Nallet, H. (842) 148)

Anoxic injury
Dorsal column; Spinal cord injury; Ca^{2+} channel; Ca^{2+} channel antagonist (Imaizumi, T. (817) 84)

Antagonist
A_1 adenosine receptor; Receptor regulation; Agonist; Epidermal growth factor; Pituitary cell (Navarro, A. (816) 47)

Circadian rhythm; Melatonin; Mouse; Phase shift (Weibel, L. (829) 160)

Anterior cingulate cortex
Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Cold pain; Heat pain; Opioid; Mouse (Lee, D.E. (845) 117)

Anterior commissure
Corpus callosum; Hippocampal commissure; Cerebral cortex; Allometry; Morphometry (Bishop, K.M. (815) 358)

Anterior ethmoidal nerve
Muskrat; C-fiber; Aδ fiber; Diving response; Cardiorespiratory reflex (McCulloch, P.F. (830) 24)

Anterior piriform cortex
Anesthetic; Dentate gyrus; GABA; Hippocampus; Olfactory cortex; Perforant path; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Anterograde and retrograde tracing
Median preoptic nucleus; Paraventricular hypothalamic nucleus; Ventrolateral medulla; Catecholamine; Rat (Kawano, H. (817) 110)

Anterograde and retrograde tracers
Fos; Locus coeruleus; Paraventricular nucleus of the hypothalamus (Tassorelli, C. (842) 294)

Anterograde labeling
Dexamethasone; 3-Methylindole; Olfactory axon; Optical density; Rat (Kratskin, I.L. (847) 240)

Anterograde neuroanatomical tracing
Anterior cingulate cortex; Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex (Fisk, G.D. (825) 1)

Anterograde tracing
Retrograde tracing; Neurobiotin; Pallium; Telencephalic subregion; Sensory processing (Von der Emde, G. (818) 355)

Anteroventral third ventricle (AV3V)
Nitric oxide (NO); Blood pressure; Heart rate (Lewis, S.J. (830) 191)

Anteroventral third ventricle (AV3V) lesions
Baroreceptor reflex; Rats (Lewis, S.J. (835) 330)

Anti-analgesia
Opioid; Pain facilitation; Antinociception; Pronociception; Stress; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

Antibodies
Oxidative stress; Nitric oxide; Cortex; Striatum; Thalamus (Maybodi, L. (817) 199)

Antichymotrypsin
Interleukin-1; S100; Butyrylcholinesterase; Nitric oxide synthase; Alzheimer's disease (Hu, J. (842) 46)

Anticipatory postural adjustment
Arm movement; Freely and backsupported posture; H-reflex; Vibration; Human (Kawanishi, M. (832) 13)

Anticonvulsant
Dimemorfan; Dextromethorphan; Dextrorphan; Sigma receptor; PCP receptor; Locomotor activity (Chou, Y.-C. (821) 516)

Remacemide; Desglycinyl remacemide; MK-801; Phencyclidine; SKF-10,047 (Ahmed, M.S. (827) 46)

Antidepressant
Depression; Monoamine transporter; Serotonin uptake; Norepinephrine uptake; Glia; Astrocyte (Neary, J.T. (816) 358)

Fluoxetine; Mu-opioid receptor; Rat brain; Immunostaining; Selective serotonin reuptake inhibitor (De Gandarias, J.M. (817) 236)

Benzodiazepine withdrawal; Escape deficit; Anhedonia; Depression (Lacerra, C. (819) 40)

Retinotectal pathway; Retinal lesion; Lesion-induced plasticity; Serotonin reuptake inhibitor; Fluoxetine; 5-HT (Bastos, E.F. (824) 28)

Catecholamines; Dopamine; Norepinephrine; Turnover (Zangen, A. (824) 243)

Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; P-glycoprotein; Selective serotonin reuptake inhibitor; Stereoselectivity; Transport (Rochat, B. (831) 229)

Chronic citalopram treatment; Autoreceptor sensitivity; Dorsal hippocampus; Frontal cortex; In vivo microdialysis; Serotonin (5-HT, 5-hydroxytryptamine) (Hjorth, S. (835) 224)

Amitriptyline; $GABA_A$ receptor; $^{36}Cl^-$ influx; Recombinant WSS-1 cell; HEK-293 cell (Malatynska, E. (851) 277)

Antidromic
EPSP; Afterpotentials; CA1; Cyclohexyladenosine; 8-Cyclopentyltheophylline (Fowler, J.C. (837) 309)

Antidromic discharge
Dorsal root afferent; Cat; Locomotion; Presynaptic inhibition (Beloozerova, I. (846) 87)

Anti-galactocerebroside
Multiple sclerosis; Axonal degeneration; Neurofilament protein; Microtubule; Macrophage (Zhu, B. (824) 204)

Antinociception
Genetics; Selective breeding; Solution hybridization (Kest, B. (816) 381)

Pain; Morphine; Sex difference; Adult gonadectomy (Krzanowska, E.K. (821) 224)

Morphine; Opioid receptor; Transgenic mouse (Fuchs, P.N. (821) 480)

Nicotine dependence; Reinforcement for smoking; Met-enkelphalin (Wewers, M.E. (822) 107)

Opioid; Pain facilitation; Pronociception; Antianalgesia; Stress; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

Periaqueductal gray; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Dorsolateral funiculus; Carbachol (Guimarães, A.P.C. (827) 152)

Vagus nerve; Thalamus; Nucleus ventralis posteromedialis; Pain (Nishikawa, Y. (833) 108)

Pain; Centromedian–parafascicular complex; Evoked potential; Brain rewarding stimulation; Rabbit ontogenesis (Butkevich, I.P. (834) 13)

Supraspinal/spinal synergy; δ-Opioid agonist; Rostral–ventral medulla; [D-Ala^2,Glu^4]deltorphin; [D-Pen^2,D-Pen^5]enkephalin (Kovelowski, C.J. (843) 12)

Antioxidant
21-Aminosteroid; Ischemia–reperfusion; Neuroprotection; Oxygen free radical; Pyrrolopyrimidine (Schmid-Elsaesser, R. (816) 471)

Astrocyte; Calcium; Microglia; Oxidized low density lipoprotein; Reactive oxygen species (Keller, J.N. (830) 10)

Glutathione (GSH); Catalase; Superoxide dismutase (SOD); Neuroprotection; Free radical; PD (Iida, M. (838) 51)

Neuronal death; Salicylic acid; Redox status; Chick embryo; Retina (Castagné, V. (840) 162)

Biliverdin reductase; Cerebral ischemia; Heme oxidation; Bilirubin (Panahian, N. (850) 1)

Antioxidant enzyme
Amyotrophic lateral sclerosis; Caloric restriction; Motor neuron; Oxidative stress (Pedersen, W.A. (833) 117)

Anti-phosphorylated tau antibody
Phosphorylated tau; Age-related change; Facial nucleus; Lateral cerebellar nucleus; Groggy rat (Takeuchi, I.K. (831) 292)

Antisense
Salt appetite; Adrenomedullin (Samson, W.K. (818) 164)

Potassium ATP channel; 6-Hydroxydopamine; Kir6.2; Globus pallidus; Apomorphine (Lamensdorf, I. (818) 275)

Adeno-associated virus; Disease-modeling; GAP-43; Green fluorescent protein (Klein, R.L. (832) 136)

Opioid growth factor receptor; ζ-Opioid receptor; Rat; Gene; cDNA; mRNA (Zagon, I.S. (849) 147)

Antisense mapping
Kappa; Opioid; Analgesia; Kappa$_1$ receptor; Dynorphin B; α-Neoendorphin (Pasternak, K.R. (826) 289)

Antisense oligonucleotide
Angiotensinogen; Sympathetic nervous system; Paraventricular hypothalamic nucleus; Blood pressure; Vasopressin (Kagiyama, S. (829) 120)

Immediate early gene; c-*fos*; Cerebral ischemia; Cerebral infarction (Zhang, Y. (832) 112)

Antisense phosphorothioate oligonucleotides
Inducible transcription factor; Prepositus hypoglossus; Posture; Movement; Labyrinthectomy (Kaufman, G.D. (817) 246)

Anti S-100 serum
LTP-anoxic; LTP-hippocampus (Melani, R. (840) 171)

Anti-sst antibody
Somatostatin-receptor subtype; Somatostatin-gold; Nanogold (Segond von Banchet, G. (816) 254)

Anxiety
Benzodiazepine; Tolerance; Social interaction; NMDA receptor antagonist (Fernandes, C. (815) 431)

Lipopolysaccharide; Norepinephrine; Dopamine; Serotonin; Corticosterone; ACTH; Exploration (Lacosta, S. (818) 291)

Immunohistochemistry; Serotonin; Raphe nuclei; Fos; Stress; Depression (Grahn, R.E. (826) 35)

CRF receptor type 1; Null mutant mice; Memory (Contarino, A. (835) 1)

Defense behavior; Diazepam; Orphanin FQ; Stress (Griebel, G. (836) 221)

Cerebellum; Benzodiazepine; GABA$_A$ receptor subtype; Elevated plus maze (Vekovischeva, O.Y. (837) 184)

Corticotropin-releasing factor; Urocortin; Stress; Drug addiction (Koob, G.F. (848) 141)

GABA$_A$; In situ hybridization; Punishment; Behavior; Alprazolam (Liu, M. (882) 8)

Anxiety disorders
Chronic stress; Cold stress; Foot shock; In vivo microdialysis; Norepinephrine (Jedema, H.P. (830) 211)

Anxiogenic behavior
Angiotensin II type 2 receptor; Mouse; α$_1$-Adrenergic receptor; Corticotropin-releasing factor; Amygdala (Okuyama, S. (821) 150)

Anxiolytic
Neurosteroid; Hippocampus; Lateral septum; Elevated plus-maze; Defensive burying test (Bitran, D. (850) 217)

4-AP
Functional recovery; Motor evoked potential; Reticulospinal; Spinal cord injury (Gruner, J.A. (816) 446)

AP7
β-Endorphin analgesia; MK801; NMDA receptor; Scopolamine; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

AP-1
TRH; Glucocorticoid; Hypothalamus; Phorbol ester; *N*-Ethyl-maleimide; CREB (Luo, L.-G. (841) 189)

Apamin
Caesium; Tetraethylammonium; Spinal cord; Electrophysiology (Cazalets, J.-R. (827) 185)

Apical dendrite
Brain slice; Hallucinogen; Sr^{2+}; Synaptotagmin III; Whole-cell recording (Aghajanian, G.K. (825) 161)

Apolipoprotein E
Receptor; Cytoplasmic puncta; Alzheimer's disease (Motoi, Y. (833) 209)

β-Amyloid; Alzheimer's disease (Beffert, U. (843) 87)

Apomorphine
Antisense; Potassium ATP channel; 6-Hydroxydopamine; Kir6.2; Globus pallidus (Lamensdorf, I. (818) 275)

D2 dopamine receptor; NMDA glutamate receptor; Priming; c-*Fos* (Pollack, A.E. (827) 160)

Oligemic episode; Dopamine; D1RmRNA; Striatum; Aging (Heim, C. (851) 235)

Apoptosis
Bax; Ischemia; Retina; Terminal deoxynucleotidyl-transferase-mediated dUTP nick end-labeling (TUNEL) (Kaneda, K. (815) 11)

Neurotransmitter; Growth factor; Tissue culture; Striatum (Iacovitti, L. (816) 276)

Bcl-2; Fetal alcohol syndrome; Neuroprotection; Ethanol (Heaton, M.B. (817) 13)

DNA fragmentation; DNA repair; Cortical impact; Temporal profile; Rat; Hippocampus (Kaya, S.S. (818) 23)

TUNEL; Primary sensory neuron; Trigeminal ganglion; Capsaicin; Electron microscopy (Sugimoto, T. (818) 147)

Melatonin; PC12 cell; 6-hydroxydopamine; Electron microscopy; Necrosis (Mayo, J.C. (818) 221)

Huntingtin protein; Huntington's disease; Subthalamic nucleus (O'Kusky, J.R. (818) 468)

Phencyclidine; *N*-Methyl-D-aspartate; c-*fos*/FLI; Striatum (Griffiths, M.R. (821) 177)

Reactive oxygen species; Caspase; Nitric oxide; Glutamate; PARP (Ishikawa, Y. (824) 71)

Nerve injury; Infraorbital nerve; Thalamus; Sensory trigeminal nuclear complex; Newborn rat (Sugimoto, T. (824) 284)

Glutathione; L-Buthionine sulfoximine; Cerebellar granule neuron; Reactive oxygen intermediate; Mitochondria (Wüllner, U. (826) 53)

N-Methyl-D-aspartate; Glutamate; Neurotoxicity; Neuroprotection; Neurotrophins (Rocha, M. (827) 79)

Bcl-2; Bax; Neuronal cell death; Axotomy; Hypoglossal nerve; Adult rat (Baba, N. (827) 122)

Kainate; Necrosis; Cerebellar granule cells; Calcium; Voltage-gated calcium channel (Leski, M.L. (828) 27)

Synaptogenesis; Tissue plasticity; Rat; Staurosporine; Middle cerebral artery occlusion (Chopp, M. (828) 197)

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Cerebellar granule neuron; Neurotoxicity; Aluminum; Neuroglial culture; Astroglial culture (Suárez-Fernández, M.B. (835) 125)

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β Amyloid; Neurotoxicity; Vitamin E; Ginkgolide; Cell death (Yao, Z.-X. (847) 203)

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Melittin; Phospholipase A_2; Amino acid; Free fatty acid; Glutamate; Cerebral cortex (Phillis, J.W. (847) 270)

Hydrogen oxide; Cytosolic phospholipase A_2; Apoptosis; EGF; GH3 cells (Yasuda, Y. (850) 197)

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Arginine–vasopressin
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Arginine^8–vasopressin
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Arginiosuccinate synthetase
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Arvicanthis
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MHC-II; NO; β-amyloid; Microglia; Alzheimer's disease (Pazmany, T. (835) 213)

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3-Nitropropionic acid; Neurotoxicity; Succinate dehydrogenase; Neuron; NMDA-receptor (Olsen, C. (850) 144)

Astrocyte proliferation
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Astrocytoma
Metallothionein-I; Glial fibrillary acidic protein; Methylmercury; Astrocyte (Yao, C.P. (818) 414)

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ATM
Ataxia-telangiectasia; Multivesicular body; Endocytosis; Lysosomal pathway (Kuljis, R.O. (842) 351)

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ATP-dependent potassium channel
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ATP-sensitive potassium channel
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Superior colliculus; Seizure network; Genetically epilepsy-prone rat; Pontine reticular formation; Inferior colliculus (Faingold, C. (821) 392)

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Biocytin; Brain slice; Intracellular recording; Synaptic convergence (Reetz, G. (816) 527)

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κ-Knockout; Knockout mouse; KOR gene; Opioid receptor; μ-Receptor; δ-Receptor; κ-Receptor; Gene deletion (Slowe, S.J. (818) 335)

cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Hippocampus; Alzheimer's disease; Neuropathological change; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

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α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Nucleus tractus solitarius; Nodose ganglion; Hypertension; (*S*)-[^{3}H]-5-Fluorowillardiine (Ashworth-Preece, M.A. (834) 186)

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Autoreceptor sensitivity
Chronic citalopram treatment; Dorsal hippocampus; Frontal cortex; Antidepressant; In vivo microdialysis; Serotonin (5-HT, 5-hydroxytryptamine) (Hjorth, S. (835) 224)

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Avian antidiuretic hormone
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Axonal degeneration
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Brainstem; Cholinergic neuron; Vigilance; Micturition; Enuresis (Koyama, Y. (840) 45)

Basal forebrain
Acetylcholine; Alzheimer's disease; 192 IgG-saporin; Cerebral circulation (Waite, J.J. (818) 1)

Diagonal band of Broca; Sleep; Non-REM; Thermoregulation; Thermosensitivity; GABA (Hays, T.C. (845) 215)

Ribosome inactivating protein; Neostriatum; Cholinergic neuron; Immunocytochemistry (Kwok, K.H.H. (846) 154)

Alzheimer's disease; Cholinergic; Ovariectomy; Gonadal; Steroids (Mufson, E.J. (849) 253)

Basal ganglia
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Dorsomedial caudate–putamen; Movement disorder; Paroxysmal dyskinesia; Type II neuron; GABAergic system (Gernert, M. (821) 277)

Parkinson's disease; 6-Hydroxydopamine lesion; NMDA antagonist; KN93; Motor response alterations (Oh, J.D. (821) 433)

PD 128907; Dopamine D_3 receptor; Binding affinity; Caudate–putamen; Islands of Calleja (Hillefors, M. (822) 126)

Brain; CYP2D; Immunohistochemistry; P450; Parkinson's disease (Riedl, A.G. (822) 175)

Parkinson's disease; Neurotoxin; Neurogenetics; Gender (Hamre, K. (828) 91)

G-protein coupled receptor; Medium spiny neuron; Striatal interneuron; Immunocytochemistry; Laser scan confocal microscopy (Yung, K.K.L. (830) 345)

GABA; NMDA; Dopamine; Burst; Isoguvacine (Paladini, C.A. (832) 145)

Striatum; Subthalamic nucleus; Presupplementary motor area; Supplementary motor area; Motor control (Inase, M. (833) 191)

Nigrostriatal pathway; Nigropallidal projection; Single cell labeling; Parkinson's disease; Huntington's disease (Gauthier, J. (834) 228)

Dopamine receptor subtype; Dopamine transporter; Brain development; Immunohistochemistry (Meng, S.Z. (843) 136)

Basal level
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Basic fibroblast growth factor
S-100β; Stereology; Immunohistochemistry; Fractionator (Gomide, V.C. (835) 162)

Basilar papilla
Acoustic injury; Auditory function; Chick; Cochlear nerve; Single-unit recordings; Rate–intensity functions; Recovery of function (Plontke, S.K.-R. (842) 262)

Basolateral amygdala
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Basophilic invasion
Immunohistochemistry; FMRFamide; Ontogeny; Pituitary; *Tupaia belangeri* (Scandentia) (Malz, C.R. (834) 83)

Bat
Auditory cortex; Corticofugal facilitation and inhibition; Inferior colliculus (Jen, P.H.-S. (841) 184)

Bathophenanthroline
Aluminum; Iron; Ferrous ion; β-Amyloid; Ascorbic acid; Free radical; Alzheimer's disease (Yang, E.Y. (839) 221)

Bax
Apoptosis; Ischemia; Retina; Terminal deoxynucleotidyl-transferase-mediated dUTP nick end-labeling (TUNEL) (Kaneda, K. (815) 11)

Bcl-2; Neuronal cell death; Axotomy; Hypoglossal nerve; Adult rat; Apoptosis (Baba, N. (827) 122)

BAY X3702
Acute subdural hematoma; Rat; Serotonin 5-HT_{1A} agonist; Ischemia; Neuroprotection (Alessandri, B. (845) 232)

Bcl-2
Apoptosis; Fetal alcohol syndrome; Neuroprotection; Ethanol (Heaton, M.B. (817) 13)

Bax; Neuronal cell death; Axotomy; Hypoglossal nerve; Adult rat; Apoptosis (Baba, N. (827) 122)

Transgenic mouse; Neuron; Learning; Maze; Behavior (Coleman, G.J. (832) 188)

BCX-34
Respiratory inhibition; Astrocyte; Purine nucleoside phosphorylase; Anaerobic glycolysis (Litsky, M.L. (821) 426)

BDNF
Peptidergic neuron; Neurotrophin; SRIF; Neuropeptide Y; gp120; Brain (Barnea, A. (815) 349)

Transmitter release; Synaptic plasticity; NGF (Numakawa, T. (842) 431)

Hormone replacement; Estradiol; Hippocampus; Cognition; Alzheimer's disease (Gibbs, R.B. (844) 20)

Ototoxicity; *Trk*B; Vestibular epithelia; Regeneration (Popper, P. (846) 40)

GAP-43; Facial nerve; Regeneration; In situ hybridization; Drug delivery system (Kohmura, E. (849) 235)

Bed nucleus of stria terminalis
Male rat; Castration; Dopamine; Tyrosine hydroxylase; Medial preoptic area; Nitric oxide synthase; NADPH-d; Paraventricular nucleus; Amygdala (Du, J. (836) 90)

Bed nucleus of the stria terminalis
Corticotropin-releasing factor; Locus coeruleus; Glucocorticoid receptor; Norepinephrine; Barrington's nucleus; Central nucleus of the amygdala (Lechner, S.M. (816) 17)

Melatonin receptor; Photoresponsiveness; Individual variation; Seasonal breeding; Pars tuberalis; Suprachiasmatic nucleus; Paraventricular nucleus; Medial preoptic area; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Preoptic area; In situ hybridization; Avian brain; Male sexual behavior; Neuropeptide (Panzica, G. (850) 55)

Corticotropin-releasing hormone; Amygdala; Paraventricular nucleus; Psychological stress (Makino, S. (850) 136)

Behavior
Beta amyloid; Learning (O'Hare, E. (815) 1)

Microdialysis; Formalin test; Novelty (Ceccarelli, I. (815) 169)

Burrowing; Feeding; Grooming; Neuropeptide Y (NPY); Orexin (Ida, T. (821) 526)

$Galanin_{rat}$; Galantide; Monoamine; Dopamine; Synthesis; Rat (Ericson, E. (822) 200)

Formalin test; Muscarinic receptor; Analgesia; Corticosterone; β-Endorphin (Capone, F. (830) 292)

Bcl-2; Transgenic mouse; Neuron; Learning; Maze (Coleman, G.J. (832) 188)

Molecular analysis; Gene transfer; Herpes simplex vectors (Simonato, M. (835) 37)

TNF-α; Transgenic mice; Learning; Inflammation; Cytokine; Demyelination; CNS inflammation (Aloe, L. (840) 125)

Immediate-early gene; Superior olivary complex; Inferior colliculus; Medial geniculate body; Auditory cortex (Carretta, D. (841) 170)

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Free radical scavenger; Water maze; Ischemia (Pazos, A.J. (846) 186)

Thyroid hormone; Learning; Congenital hypothyroidism (MacNabb, C. (847) 231)

Bombesin; Amygdala; Feeding; Body temperature (Vígh, J. (847) 253)

$GABA_A$; In situ hybridization; Anxiety; Punishment; Alprazolam (Liu, M. (882) 8)

Behavioral organization
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Behavioral sensitization
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DOPA-induced dyskinesia; Matrix; Neuronal plasticity; Striosome (Saka, E. (825) 104)

β-endorphin
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Benzodiazepine
Transcranial magnetic stimulation; GABA; Cortical excitability; MEP; Drug abuse; Idiopathic stupor (Palmieri, M.G. (815) 192)

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Tolerance; Anxiety; Social interaction; NMDA receptor antagonist (Fernandes, C. (815) 431)

GABA; $GABA_A$ receptor; Hippocampus; [^{3}H]L-655,708; [^{3}H]Ro15-1788 (Sur, C. (822) 265)

5α pregnan-3α-ol-20-one (3α,5α-THP); Stress; Progesterone; Estrogen (Wilson, M.A. (824) 136)

Cerebellum; Anxiety; $GABA_A$ receptor subtype; Elevated plus maze (Vekovischeva, O.Y. (837) 184)

2,3-Benzodiazepine
AMPA; Barbiturate anesthesia; Excitatory amino acid; Kainate; Ketamine (Ruiz, A. (818) 421)

Benzodiazepine receptor
Loss of righting reflex; Diazepam; Propofol; Diabetes (Ohsawa, M. (833) 282)

Avoidance learning; Coping; Corticosterone; Unconditioned stimulus preexposure effect; Rat (Lehmann, J. (851) 141)

Benzodiazepine withdrawal
Escape deficit; Anhedonia; Depression; Antidepressant (Lacerra, C. (819) 40)

Benzolamide
CaATPase; Extracellular space; Carbonic anhydrase; Calcium channel; pH regulation (Tong, C.-K. (815) 373)

Beta-adrenergic receptor
Cardiovascular regulation; Limbic system; Noradrenaline; Alpha-adrenergic receptor (Roder, S. (818) 531)

Beta amyloid
Behavior; Learning (O'Hare, E. (815) 1)

Beta-amyloid
Alzheimer's disease; Apoptosis; Caspase; Cortical neuron (Harada, J. (842) 311)

β-galactoside
Transdifferentiation; Lectin; Ototoxicity; Cochlea; Rat (Bartolomé, M.V. (822) 43)

Bicuculinne
Hippocampus; Memory; Diabetes; Glucose; Insulin; Muscimol; Oxotremorine; Acetylcholine (Messier, C. (818) 583)

Bicuculline
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Rostral ventrolateral medulla; Muscimol; Sympathetic nerve activity; Arterial blood pressure; Plasma catecholamine (Natarajan, M. (827) 169)

Ventral tegmental area; Stimulation-induced locomotor response; Facilitation; Phaclofen; Muscimol; Contralateral effect (Trojniar, W. (842) 419)

Bilateral projection
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Bilirubin
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Biliverdin reductase
Cerebral ischemia; Heme oxidation; Bilirubin; Antioxidant (Panahian, N. (850) 1)

Binding
NGF antibody; M1 receptor; Hippocampus; Juvenile rat; Development (Rosati, A.M. (815) 185)

Binding affinity
PD 128907; Dopamine D_3 receptor; Basal ganglia; Caudate–putamen; Islands of Calleja (Hillefors, M. (822) 126)

Binge
Amphetamine; Dopamine receptor; Stereotypy; Quinpirole; SKF 82958 (Kuczenski, R. (822) 164)

Biochemical differentiation
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Biocytin
Auditory midbrain; Brain slice; Intracellular recording; Synaptic convergence (Reetz, G. (816) 527)

Calbindin D28k; Substantia gelatinosa; Spinal trigeminal nucleus; Intracellular staining; Immunohistochemistry; Nociception; Rat (Li, Y.-Q. (840) 179)

Biogenic amine
Immunocytochemistry; Neurotransmitter; Insect brain; Circadian pacemaker (Loesel, R. (842) 408)

Biological marker
Tau; gp130; Interleukin-6 receptor complex; Soluble receptor; ELISA; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

Biondi ring tangle
Aging; Alzheimer's disease; Choroid plexus (Wen, G.Y. (832) 40)

Biotinylated dextran amine
Nucleus ambiguus; Kölliker–Fuse nucleus; Parabrachial nucleus; Cholera toxin; Swallowing (Hayakawa, T. (816) 364)

Biperiden
Trihexyphenidyl; Learning and memory; Passive avoidance; Scatchard analysis; Exchange assay (Kimura, Y. (834) 6)

Bipolar affective disorder
Phospholipid; Lysophospholipid acyltransferase; Lysophospholipase; Glycerophosphodiesterase (Ross, B.M. (821) 407)

Bird
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Bird song
Immediate early gene; Photoperiod; ZENK (Duffy, D.L. (844) 78)

Black-Gold
Myelin; Demyelination; Kainic acid; 3-Nitropropionic acid; Isoniazid; Domoic acid (Schmued, L. (837) 289)

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Blood–brain barrier
Microdialysis; VMH–PVN; Brain metabolism; Astrocyte (Goucham, A.-Y. (816) 84)

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Hexose transporter; GLUT1; GLUT2; GLUT3; Human fetal brain; Choroid plexus; Brain capillary (Nualart, F. (824) 97)

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Antidepressant; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; P-glycoprotein; Selective serotonin reuptake inhibitor; Stereoselectivity; Transport (Rochat, B. (831) 229)

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Blood–brain barrier (BBB)
E-Cadherin; Calcium-dependent cell adhesion; Hypoxia/aglycemia; Stroke (Abbruscato, T.J. (842) 277)

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Acetylcholine; Spinal cord; Dorsal horn; Muscle contraction (Hand, G.A. (837) 143)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Excitatory amino acid; Microdialysis (Lillaney, R. (844) 164)

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Bombesin; Amygdala; Feeding; Behavior (Vígh, J. (847) 253)

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Body weight
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Background metabolism; Respiratory quotient; Obesity; Lipolysis (Ruffin, M.-P. (846) 23)

Bombesin
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Bötzinger complex
cVRG; Pre-Bötzinger complex; rVRG; Cardiopulmonary receptor; Carotid chemoreceptor; Respiratory neuron (Chitravanshi, V.C. (821) 443)

Bovine brain microvessel endothelial cell
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Bradycardia
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Bradykinesia
Parkinson's disease; Reaction time; Simple reaction time; Choice reaction time; Akinesia (Kutukcu, Y. (815) 367)

Brain
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Peptidergic neuron; Neurotrophin; SRIF; Neuropeptide Y; BDNF; gp120 (Barnea, A. (815) 349)

Mouse; Angiotensin receptor; Dopamine; Aging; Ethanol (Daubert, D.L. (816) 8)

Newborn; NMDA receptor; CPP; Free radical; Lipid peroxidation (Fritz, K.I. (816) 438)

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Angiotensinogen; Angiotensin II; Transgenic; In situ hybridization; Amygdala (Yang, G. (817) 123)

Chicken; Thyrotropin-releasing hormone; Pituitary; Nucleus; Ontogeny (Geris, K.L. (818) 260)

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Mitochondria; Ischemia; Development; Reactive oxygen species (Keelan, J. (821) 124)

Basal ganglia; CYP2D; Immunohistochemistry; P450; Parkinson's disease (Riedl, A.G. (822) 175)

Corticotropin-releasing factor; Stress; Aging; Rat; Messenger RNA (Kasckow, J.W. (822) 228)

Arginine–vasopressin; Stress; Aging; Rat; Corticosterone; ACTH; Corticotropin-releasing factor (Mulchahey, J.J. (822) 243)

Lipopolysaccharide; Interleukin-1 receptor antagonist; Hypothalamus; Catecholamine; Serotonin (MohanKumar, S.M.J. (824) 232)

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Hypoxia; Microdialysis electrode; Glutamate; Real-time monitoring; In vivo (Kunimatsu, T. (831) 273)

Connective tissue growth factor; Spinal cord; Astrocyte; Immunohistochemistry (Kondo, Y. (834) 146)

Cationic amino acid transporter; Rat; In situ hybridization; Immunohistochemistry; Arginine (Hosokawa, H. (838) 158)

Nerve growth factor; Enzyme-linked immunosorbent assay; Endogenous level (Fawcett, J.R. (842) 206)

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Ascorbate; α-Tocopherol; Liver; Heart, plasma (Martin, A. (845) 50)

Rat; Ischemia; Norepinephrine; Microdialysis; Histology (Nellgård, B.M.G. (847) 262)

Voltage-dependent Ca^{2+} channel; α_{1A} subunit; Transcriptional regulation; Transgenic mice; Adrenal gland (Takahashi, E. (850) 47)

Vasoactive intestinal peptide; Development; Frog; Immunocytochemistry (Mathieu, M. (851) 105)

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Motor cortex; Stimulation; Movement; Sheep (Grovum, W.L. (851) 252)

Brain aging
Tissue segmentation; Primate (Andersen, A.H. (829) 90)

Brain asymmetry
Medial prefrontal cortex; Dopamine; 6-Hydroxydopamine lesion; Locomotor activity behavior; Ethanol consumption (Nielsen, D.M. (823) 59)

Turning behavior; Ethanol consumption; Medial prefrontal cortex; Dopamine; Nucleus accumben (Nielsen, D.M. (823) 80)

Medial prefrontal cortex; Dopamine; Locomotor activity behavior; Ethanol; Nucleus accumbens (Nielsen, D.M. (823) 207)

Brain capillary
Hexose transporter; GLUT1; GLUT2; GLUT3; Human fetal brain; Blood–brain barrier; Choroid plexus (Nualart, F. (824) 97)

Brain capillary endothelial cell
L-DOPA; L-5-HTP; Cellular transport (Gomes, P. (829) 143)

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Extracellular potassium concentrations; Slow voltage variation; Ischemia; Rose bengal; Trolox; Membrane permeability; Chick retina (Netto, M. (827) 221)

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Exocytosis; Synaptic vesicle; FM1-43; Neurotransmitter; Synaptic plasticity (Bradley, J. (815) 140)

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Glia; Immunohistochemistry; Monkey brain; Neuron (Kawamoto, Y. (821) 341)

Brain derived neurotrophic factor
L-Deprenyl; Neurite outgrowth; Neurotrophic; Parkinson's disease (Kontkanen, O. (829) 190)

Brain-derived neurotrophic factor
Morris water maze; Learning and memory impairment (Mu, J.-S. (835) 259)

Adeno-associated virus; Green fluorescent protein; Locomotor behavior; Parkinson's disease; Substantia nigra (Klein, R.L. (847) 314)

Brain development
Dopamine receptor subtype; Dopamine transporter; Basal ganglia; Immunohistochemistry (Meng, S.Z. (843) 136)

Brain edema
Hypoxia preconditioning; Kainic acid; Status epilepticus; Seizure; Specific gravity (Emerson, M.R. (825) 189)

Intracerebral hemorrhage; Subdural hematoma; Cerebral ischemia; Cerebral blood flow (Patel, T.R. (829) 125)

Cerebral ischemia; Cerebral blood flow; Energy metabolism; Induced hypertension (Hosomi, N. (835) 188)

Matrix metalloproteinase; Cerebral ischemia; Reperfusion injury; Blood–brain barrier (Fujimura, M. (842) 92)

Brain endothelial cell
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Brain energy metabolism
Phosphorus-31 magnetic resonance spectroscopy; Creatine phosphate; Intracellular pH; Membrane phospholipid; Photic stimulation (Murashita, J. (818) 72)

Brain evolution
Auditory cortex; Caudate nucleus; Squirrel monkey (Borgmann, S. (836) 225)

Brain extract
Acetylcholine receptor; Neurotrophic; Down-regulation (Montgomery, J.M. (818) 346)

Brain–gut axis
Regulation of food intake; Cholecystokinin; *C-fos* protein; Satiety (Zittel, T.T. (846) 1)

Brain–gut interaction
Fos; Stress-induced sensitization; Cardiovascular responsivity; Paraventricular nucleus of the hypothalamus (Bruijnzeel, A.W. (819) 15)

Brain inflammation
Rat; Nonsteroidal anti-inflammatory drug (NSAID); Microglia; Alzheimer's disease; Lipopolysaccharide (Hauss-Wegrzyniak, B. (815) 36)

Brain injury
Ethanol; Lactate; Shock (Zink, B.J. (837) 1)

Brain ischemia
Glycemia; HSP_{72}; Neuronal damage; Astrogliosis; Gerbil (Garnier, P. (836) 245)

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Brain metabolism
Microdialysis; VMH–PVN; Blood–brain barrier; Astrocyte (Goucham, A.-Y. (816) 84)

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Brain plasticity
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Brain protein synthesis
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Brain rewarding stimulation
Pain; Antinociception; Centromedian–parafascicular complex; Evoked potential; Rabbit ontogenesis (Butkevich, I.P. (834) 13)

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Suprachiasmatic nucleus; Circadian rhythm; Melatonin; Serotonin; Neuropeptide Y; Cyclic AMP (Prosser, R.A. (818) 408)

Apical dendrite; Hallucinogen; Sr^{2+}; Synaptotagmin III; Whole-cell recording (Aghajanian, G.K. (825) 161)

Na^+,K^+ATPase; Ouabain; Spreading depression; Hypoxia; Ischemia; Hippocampus (Balestrino, M. (838) 37)

Circadian rhythm; Suprachiasmatic nucleus; γ-Aminobutyric acid; GABA; Tetrodotoxin; Muscimol; Rat (Bergeron, H.E. (841) 193)

Nitrotyrosine; Peroxynitrite; Hypoxia; NMDA (Ochiai-Kanai, R. (847) 59)

Sodium channel; Auditory; Cartwheel cell; Transgenic mouse (Chen, K. (847) 85)

Adenosine; Chick; Passive avoidance learning; Adenosine A_1 receptor; Adenosine A_2 receptor (Daisley, J.N. (847) 149)

Tetanic stimulation; Plasticity; Field potential; Dark-rearing (Atapour, N. (851) 148)

Brainstem
Trigeminal; Bilateral projection; Wallenberg's syndrome (Ellrich, J. (826) 321)

Cholinergic neuron; Vigilance; Micturition; Enuresis; Barrington's nucleus (Koyama, Y. (840) 45)

Dorsal column; Pain modulation; Electroanalgesia; Raphe; Flexion reflexes (Saadé, N.E. (846) 72)

Brainstem auditory evoked potential
Absence seizure; Primary generalized epilepsy; Simultaneous analysis; Lower brainstem; Centrencephalic system (Kohsaka, S. (837) 277)

Brainstem auditory-evoked potential
Metachromatic leukodystrophy; Arylsulfatase A; Spiral ganglion; Transgenic mouse (D'Hooge, R. (847) 352)

Brainstem reticular formation
Auditory-evoked potential; Hippocampus; Multiple single-neuron recording; Auditory cortex; Medial septal nucleus (Moxon, K.A. (825) 75)

Brain tumor
Blood–brain barrier; Edema; Glioma; Horseradish peroxidase; Vascular endothelial growth factor (Book, A.A. (833) 173)

Brain weight
Sex difference; Estradiol; Testosterone (Galea, L.A.M. (821) 383)

Branched-chain amino acid
Epilepsy; Absence seizure; Tonic–clonic seizure; Branched-chain ketoacid (Dufour, F. (815) 400)

Branched-chain ketoacid
Epilepsy; Absence seizure; Tonic–clonic seizure; Branched-chain amino acid (Dufour, F. (815) 400)

Broiler
Mouse leptin; Food intake; White Leghorn; Intracerebroventricular administration (Bungo, T. (817) 196)

5-Bromodeoxyuridine
Neurogenesis; Transient forebrain ischemia; Dentate gyrus (Takagi, Y. (831) 283)

Brown adipose tissue
Calcitonin gene-related peptide; Heat production; Ventromedial hypothalamus; Sympathetic nerve (Kobayashi, A. (827) 176)

Calcitonin gene-related peptide; Sympathetic nervous system; Heat production; Ventromedial hypothalamus (Kobayashi, A. (849) 196)

Brown–Norway rat
Aging; Norepinephrine transporter; Tyrosine hydroxylase; Locus coeruleus (Shores, M.M. (826) 143)

Brush
Pain; Fos; Dorsolateral funiculus; Spinal cord; Rat (Wei, F. (820) 112)

β-thymosin
Developing chick brain; G-actin; ADF; Cofilin; Profilin (Devineni, N. (823) 129)

Burrowing
Behavior; Feeding; Grooming; Neuropeptide Y (NPY); Orexin (Ida, T. (821) 526)

Burst
GABA; NMDA; Dopamine; Isoguvacine; Basal ganglia (Paladini, C.A. (832) 145)

Bursting
Dopamine neuron; Brain slice; Pacemaker (Shepard, P.D. (817) 104)

Buspirone
Receptor; Serotonin; Penile reflex; Copulatory behavior; Gepirone; DPAT; BMY-7378 (Rehman, J. (821) 414)

L-Buthionine sulfoximine
Glutathione; Cerebellar granule neuron; Reactive oxygen intermediate; Mitochondria; Apoptosis (Wüllner, U. (826) 53)

Butorphanol
Withdrawal; Forskolin; PDBu; Autoradiography (Jang, C.-G. (821) 520)

Glutamate; NMDA; MK-801; Withdrawal; Autoradiography (Jang, C.-G. (845) 236)

***N-tert*-Butyl-α-phenylnitrone**
Diisopropylphosphorofluoridate; Physostigmine salicylate; Pilocarpine hydrochloride; Kainic acid; Seizures; Rat (Zivin, M. (850) 63)

Butyrylcholinesterase
Antichymotrypsin; Interleukin-1; S100; Nitric oxide synthase; Alzheimer's disease (Hu, J. (842) 46)

C

C6
Cyclosporin A; FK506; Nitric oxide; iNOS; Glioma; Rat (Trajković, V. (816) 92)

Ca^{+2}
Tyrosine phosphorylation; PKC; Quisqualic acid (Alderson, R.F. (818) 236)

CA1
Population spike; fEPSP; Cyclohexyladenosine; 8-cyclopentyltheophylline (Fowler, J.C. (815) 414)

Cerebral ischemia; γ-Aminobutyric acid; Neuroprotection; Hypothermia (Dowden, J. (829) 1)

EPSP; Antidromic; Afterpotentials; Cyclohexyladenosine; 8-Cyclopentyltheophylline (Fowler, J.C. (837) 309)

Alzheimer's disease; β-Amyloid; Amyloid precursor protein; Paired-pulse facilitation; Transgenic; Long-term potentiation (Larson, J. (840) 23)

CA3
Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Ca^{2+}-activated K^+ channel
Chronic constriction injury; N-type voltage-dependent Ca^{2+} channel (Honma, Y. (832) 195)

CA1 area
Genetic absence epilepsy rats of Strasbourg (GAERS); Field potential; Epileptiform activity; Hippocampus; Paired pulse (Armand, V. (841) 62)

CaATPase
Benzolamide; Extracellular space; Carbonic anhydrase; Calcium channel; pH regulation (Tong, C.-K. (815) 373)

Ca^{2+}/calmodulin-dependent protein II kinase
Axonal transport; Neurite growth; Protein kinase C (Hiruma, H. (826) 135)

Ca^{2+}/calmodulin-dependent protein kinase
Doublecortin; Gene expression (Engels, B.M. (835) 365)

Ca(2 +)-calmodulin-dependent protein kinase
Nitric-oxide synthase; Signal transduction; Lipopolysaccharide; Phosphorylation; NF-kappa B; CREB (Mirzoeva, S. (844) 126)

Ca^{2+}/calmodulin kinase II
Ischemia; Hyperglycemia; Hypercapnia; Acidosis; Rat; Protein kinase C (Katsura, K.-i. (849) 119)

Ca^{2+} channel
Dorsal column; Spinal cord injury; Anoxic injury; Ca^{2+} channel antagonist (Imaizumi, T. (817) 84)

Ca channel
Volatile anesthetic; Halothane; Isoflurane; Ca current; Xenopus oocyte (Kamatchi, G.L. (831) 85)

L-type voltage-gated Ca^{2+} channel
Fura-2AM; Cytosolic Ca^{2+}; Na^+/K^+ exchanger antagonist; D600; Ca^{2+}-free; Na^+-free (Sato, M. (828) 193)

N-type voltage-dependent Ca^{2+} channel
Chronic constriction injury; Ca^{2+}-activated K^+ channel (Honma, Y. (832) 195)

Ca^{2+} channel antagonist
Dorsal column; Spinal cord injury; Anoxic injury; Ca^{2+} channel (Imaizumi, T. (817) 84)

Ca current
Volatile anesthetic; Halothane; Isoflurane; Ca channel; Xenopus oocyte (Kamatchi, G.L. (831) 85)

Ca^{2+}-dependent
Presynaptic blocker; Neurotransmitter; Intracerebral microdialysis; High K^+ (Shi, Y.-L. (850) 173)

Ca^{2+}-dependent K^+ channel
Locus coeruleus neuron; Metabolic inhibition; ATP-activated K^+ channel; Channel dephosphorylation (Koyama, S. (828) 189)

Cadherin
Astrocyte; CNS injury; Glial scar; Reactive gliosis; Cell adhesion; Regeneration (Vázquez-Chona, F. (838) 45)

E-Cadherin
Blood–brain barrier (BBB); Calcium-dependent cell adhesion; Hypoxia/aglycemia; Stroke (Abbruscato, T.J. (842) 277)

Cadmium chloride
Escape behavior; Tetrodotoxin; Optic tectum; Optic nerve; Myelinated and unmyelinated axons; OFF fiber (King Jr., J.G. (841) 20)

C1 adrenergic neuron
Catecholamine receptor; Catecholaminergic axon; Reticulospinal neuron; Electron microscopy (Milner, T.A. (821) 200)

Caenorhabditis elegans
Cyclic nucleotide-gated channel; cGMP; cAMP; Thermosensation; Chemosensation (Komatsu, H. (821) 160)

Caesium
Apamin; Tetraethylammonium; Spinal cord; Electrophysiology (Cazalets, J.-R. (827) 185)

C-afferent
Capsaicin; Spinal cord; Substantia gelatinosa; Synaptic transmission; Whole-cell voltage-clamp recording (Yang, K. (830) 268)

Ca^{2+} fluorescence microscopy
Human microglia; Platelet-activating factor; SERCA; Cyclopiazonic acid; Store-operated Ca^{2+} entry (Wang, X. (842) 159)

Ca^{2+}-free
Fura-2AM; Cytosolic Ca^{2+}; Na^+/K^+ exchanger antagonist; L-type voltage-gated Ca^{2+} channel; D600; Na^+-free (Sato, M. (828) 193)

Calbindin
Tissue culture; GABAergic neuron; Calcium-binding protein; Parvalbumin; Drug of abuse; Cocaine cytotoxicity; Immunocytochemistry; Ontogenesis (Glezer, I.I. (815) 389)

Serotonin; Renshaw cell; Interneuron (Carr, P.A. (823) 198)

Age; Hippocampus; Senescence-accelerated mouse; Calcium pump; Protein kinase (Armbrecht, H.J. (842) 287)

Calbindin-D_{28} immunoreactive myenteric neuron
Adenylyl cyclase isoform; Cyclic AMP; FlCRhR fluorescence; Myenteric ganglia; AH/Type 2 neuron; Enteric glia (Liu, C.Y. (826) 253)

Calbindin D28k
Substantia gelatinosa; Spinal trigeminal nucleus; Intracellular staining; Biocytin; Immunohistochemistry; Nociception; Rat (Li, Y.-Q. (840) 179)

Calbindin D-28k
Calcitonin-gene related peptide; Jugular ganglion; Nodose ganglion; Parvalbumin; Petrosal ganglion; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

Calcitonin gene-related peptide; Immunohistochemistry; Parvalbumin; Peptide 19; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

Calbindin D28k
Suprachiasmatic nucleus; Acute ethanol treatment; Intoxication sign; Glial fibrillary acidic protein (Satriotomo, I. (847) 124)

Calbindin-D 28kD
Nucleus accumbens; Ventral tegmental area; Fluoro-Gold; Calretinin; Tyrosine hydroxylase (Tan, Y. (844) 67)

Calcineurin
Ischemia; Hippocampus; Phosphatase 2A (Morioka, M. (828) 135)

Calcitonin
Analgesia; Serotonin; 5-HT receptor; Writhing test; Mice (Ormazábal, M.J. (845) 130)

Calcitonin gene-related peptide
Neuroregeneration; Nerve growth factor; Capsaicin; Primary afferent; Immunohistochemistry (Schicho, R. (815) 60)

Sphenopalatine ganglion; Otic ganglion; Neuropeptide Y; Vasoactive intestinal peptide; Human (Uddman, R. (826) 193)

Heat production; Ventromedial hypothalamus; Sympathetic nerve; Brown adipose tissue (Kobayashi, A. (827) 176)

GABA; Retinal axon terminal; Dorsal terminal nucleus; Lateral terminal nucleus; Medial terminal nucleus; Calcium binding protein (Zhou, J. (838) 119)

Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Osteocalcin; Parvalbumin; Trigeminal ganglion (Ichikawa, H. (838) 205)

Substance P; Streptozotocin; Trigeminal ganglion (Troger, J. (842) 84)

Acetylcholinesterase molecular forms; Trophic control; Neuromuscular junction; Adult skeletal muscle (Fernandez, H.L. (844) 83)

Calbindin D-28k; Immunohistochemistry; Parvalbumin; Peptide 19; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

Sympathetic nervous system; Brown adipose tissue; Heat production; Ventromedial hypothalamus (Kobayashi, A. (849) 196)

Calcitonin gene related peptide
Nitric oxide synthase; Substance P; Inferior mesenteric ganglion; Inferior mesenteric artery; Inferior mesenteric vein (Zheng, Z.L. (827) 113)

Calcitonin-gene related peptide
Calbindin D-28k; Jugular ganglion; Nodose ganglion; Parvalbumin; Petrosal ganglion; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

Calcium
Morphine withdrawal; Thapsigargin; Frontal cortex; Diabetes; Noradrenaline (NA) turnover (Ohsawa, M. (815) 424)

Ethanol; Nicotinic receptor; Neuroprotection; Pheochromocytoma (PC12) cell (Li, Y. (816) 225)

Calpain; Calpastatin; Neutral proteinase; Spinal cord injury (Ray, S.K. (816) 375)

SH-SY5Y human neuroblastoma cell; 24-Hydroxycholesterol; Lactate dehydrogenase; ROS (Kölsch, H. (818) 171)

Ethanol; Calcium channel blocker; Hypothalamic cell (Simasko, S.M. (824) 89)

Ischemic preconditioning; Oxygen–glucose deprivation; Protein kinase C; Mitogen-activated protein kinase; Cortical neuron (Tauskela, J.S. (827) 143)

Kainate; Apoptosis; Necrosis; Cerebellar granule cells; Voltage-gated calcium channel (Leski, M.L. (828) 27)

Antioxidant; Astrocyte; Microglia; Oxidized low density lipoprotein; Reactive oxygen species (Keller, J.N. (830) 10)

DMXB; Protein kinase C; Tyrosine protein kinase; α7 Nicotinic receptor (Li, Y. (830) 218)

Climbing fiber; Dendrite; Neuromodulator; Purkinje cell (Pisani, A. (831) 113)

Acetylcholine; CREB; Norepinephrine; Vasoactive intestinal peptide; Ontogeny (Schomerus, C. (833) 39)

Astrocyte; Glial fibrillary acidic protein (GFAP); Vimentin; HSP27; Protein phosphorylation (Gottfried, C. (833) 142)

Diabetes; Allodynia; Hyperalgesia; Ryanodine; Thapsigargin; Spinal cord (Ohsawa, M. (833) 278)

Action potential; Bag cell neuron; Neuroendocrine; Protein kinase C (Wayne, N.L. (834) 211)

Dopamine beta hydroxylase; Nerve growth factor; Calcium channel; Retrograde axonal transport (Bartlett, S.E. (837) 8)

Temporal lobe epilepsy; Human brain synaptosomes; B-50; Protein phosphorylation; Neurotransmitter release (Hoogland, G. (837) 55)

Oligodendrocyte; Apoptosis; Jimpy; Myelin; Proteolipid protein; DM-20 protein; Fura-2 (Knapp, P.E. (847) 332)

NMDA receptor; Excitotoxicity; Fura-2; Magfura-2; mRNA (Cheng, C. (849) 97)

Status epilepticus; NMDA receptor; Calcium channel; Epilepsy; Intracellular calcium (Pal, S. (851) 20)

Glioblastoma; Proliferation; Patch-clamp (Chattopadhyay, N. (851) 116)

Calcium ATPase
Choroid plexus; Cerebral endothelium; Cerebrospinal fluid; Sodium–potassium ATPase (Keep, R.F. (815) 200)

Calcium-binding protein
Tissue culture; GABAergic neuron; Parvalbumin; Calbindin; Drug of abuse; Cocaine cytotoxicity; Immunocytochemistry; Ontogenesis (Glezer, I.I. (815) 389)

Substantia nigra; Ventral tegmental area; Dopamine; Tyrosine hydroxylase (Nemoto, C. (846) 129)

Calcium binding protein
Calcitonin gene-related peptide; GABA; Retinal axon terminal; Dorsal terminal nucleus; Lateral terminal nucleus; Medial terminal nucleus (Zhou, J. (838) 119)

Electron microscopy; Immunocytochemistry; Retinocollicular pathway; Corticocollicular pathway; X, Y, W cells (Mize, R.R. (843) 25)

Calcium / calmodulin
Blood pressure; Dopamine receptor; Dopamine synthesis in brain; Exercise; Spontaneously hypertensive rat (Akiyama, K. (823) 154)

Calcium channel
Benzolamide; CaATPase; Extracellular space; Carbonic anhydrase; pH regulation (Tong, C.-K. (815) 373)

Basolateral amygdala; Ethanol; *N*-methyl-D-aspartate (Calton, J.L. (816) 142)

PrP; β-amyloid; Human microglia (Silei, V. (818) 168)

Excitotoxity; Metabotropic glutamate receptor; Neostriatum; *N*-Methyl-D-aspartate; Toxicity (Colwell, C.S. (833) 234)

Calcium; Dopamine beta hydroxylase; Nerve growth factor; Retrograde axonal transport (Bartlett, S.E. (837) 8)

Angiotensin II; Renal function; Gadolinium; Losartan; Zinc; Blood pressure (De Castro-e-Silva, E. (845) 176)

$GABA_B$ receptor; Presynaptic inhibition; Lamprey; Sensory transmission (Bussières, N. (847) 175)

Status epilepticus; Calcium; NMDA receptor; Epilepsy; Intracellular calcium (Pal, S. (851) 20)

Calcium channel blocker
Ethanol; Calcium; Hypothalamic cell (Simasko, S.M. (824) 89)

Calcium channels
Hypoxia; Hippocampal neurones (Shkryl, V.M. (833) 319)

Calcium current
Current density; Entorhinal cortex; Rat; Patch-clamp; Whole cell (Bruehl, C. (816) 554)

Tyrosine kinase; Genistein; Whole-cell patch-clamp; Hippocampal slice (Potier, B. (816) 587)

Osmotic effect; Hyponatremia; Intracellular calcium; Potassium current; Cell volume (Somjen, G.G. (851) 189)

Calcium cycling
Kainate-treated rat; Epilepsy model; Hippocampal slice; Oxidative phosphorylation (Kunz, W.S. (826) 236)

Calcium-dependent cell adhesion
Blood–brain barrier (BBB); E-Cadherin; Hypoxia/aglycemia; Stroke (Abbruscato, T.J. (842) 277)

Calcium-dependent potassium channel
Dorsal root ganglion; Ectopic spontaneous discharge; Neuron (Xing, J.-L. (838) 218)

Calcium homeostasis
Endoplasmic reticulum; Orthophosphate; SERCA; Thapsigargin; Intracellular (Parsons, J.T. (834) 32)

Calcium imaging
Oral; Lingual; Paresthesia; Trigeminal; Irritation (Bryant, B.P. (842) 452)

Calcium-induced calcium release
Classical conditioning; Ryanodine receptor; Photoreceptor; Associative learning; Light adaptation (Blackwell, K.T. (822) 114)

Calcium signal; Neocortex (Kato, N. (832) 179)

Calcium influx
Potassium channel pharmacology; Neuron-glial interaction; Acetylcholine release; Sodium influx; Input resistance (Müller, M. (826) 63)

Calcium pump
Age; Hippocampus; Senescence-accelerated mouse; Protein kinase; Calbindin (Armbrecht, H.J. (842) 287)

Calcium-selective microelectrode
Carotid body; Glomus cell; Intracellular calcium; Membrane potential; Hypoxia; Cobalt; Indo-1/AM (Zhang, X.Q. (818) 118)

Calcium signal
Neocortex; Calcium-induced calcium release (Kato, N. (832) 179)

Calcium signaling
Inner ear; Cochlear efferent system; Spiral ganglion neurons; Cholinergic receptor; Muscarinic receptor (Rome, C. (846) 196)

Caloric restriction
Amyotrophic lateral sclerosis; Antioxidant enzyme; Motor neuron; Oxidative stress (Pedersen, W.A. (833) 117)

Calorie restriction
Alzheimer; Apoptosis; Excitotoxicity; Hydroxynonenal; Kainate; Oxidative stress (Zhu, H. (842) 224)

Calpain
Calpastatin; Calcium; Neutral proteinase; Spinal cord injury (Ray, S.K. (816) 375)

Transient forebrain cerebral ischemia; Calpain inhibitor; Liposome; Hippocampus (Yokota, M. (819) 8)

Free radical; IFN-γ; A23187; C6 cell death; RT-PCR (Ray, S.K. (829) 18)

Protein kinase C; Protein kinase M phosphorylation; MAP kinase; Tau; Paired helical filaments; Alzheimer's disease; Signal transduction (Ekinci, F.J. (850) 207)

Apoptosis; Auditory system; Neurotrophin-withdrawal; Hypoxia; Noise trauma (Cheng, A.G. (850) 234)

Calpain inhibitor
Calpain; Transient forebrain cerebral ischemia; Liposome; Hippocampus (Yokota, M. (819) 8)

Calpastatin
Calpain; Calcium; Neutral proteinase; Spinal cord injury (Ray, S.K. (816) 375)

Calretinin
Mossy cell; Subunits 2 and 3 of amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) type glutamate receptor (GluR2/3); Dorsoventral difference; Hippocampus; Mouse (Fujise, N. (816) 500)

Nucleus accumbens; Ventral tegmental area; Fluoro-Gold; Calbindin-D 28kD; Tyrosine hydroxylase (Tan, Y. (844) 67)

CAMP
Rat; Pituitary; Cannabinoid; Vasoactive intestinal peptide (VIP); Prolactin; Lactotroph; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Cannabinoid
WIN55,212-2; Tail-flick; CB1 receptor; Rat; Pain; Analgesia (Martin, W.J. (822) 237)

Rat; Pituitary; Vasoactive intestinal peptide (VIP); Prolactin; CAMP; Lactotroph; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Opioid; Dynorphin; Enkephalin; Analgesia; Endocannabinoid (Welch, S.P. (848) 183)

Cannabinoid receptor
Brain; Chronic EtOH; [^{35}S]GTPγS; G-protein (Basavarajappa, B.S. (815) 89)

Ca^{2+} oscillation
GH_3 cell; Muscarinic receptor; Pertussis toxin; GTP binding protein (Kushmerick, C. (851) 39)

Capsaicin
Neuroregeneration; Nerve growth factor; Calcitonin gene-related peptide; Primary afferent; Immunohistochemistry (Schicho, R. (815) 60)

Apoptosis; TUNEL; Primary sensory neuron; Trigeminal ganglion; Electron microscopy (Sugimoto, T. (818) 147)

Spinal cord; Substantia gelatinosa; Synaptic transmission; C-afferent; Whole-cell voltage-clamp recording (Yang, K. (830) 268)

Resiniferatoxin; Vanilloid; VR1; Nociception (Szabo, T. (840) 92)

CA1 pyramidal cell
Neural plasticity; Long-term potentiation; Circadian rhythm; *Mesocricetus auratus* (Raghavan, A.V. (833) 311)

***Carassius carassius* L.**
Telencephalon; Microdialysis; Fish; Hypoxia; GABA; Glutamate; Aspartate; Taurine; Metabolic depression; Ischemia (Hylland, P. (823) 49)

Carbachol
Antinociception; Periaqueductal gray; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Dorsolateral funiculus (Guimarães, A.P.C. (827) 152)

Carbocyanine
Octavolateral center; Mesencephalon; Nerve projection; Tract tracing; Horseradish peroxidase; Brain; Agnathan (González, M.J. (826) 83)

Carbonic anhydrase
Benzolamide; CaATPase; Extracellular space; Calcium channel; pH regulation (Tong, C.-K. (815) 373)

Carbon monoxide
Heme oxygenase; Glutamate; Heme oxygenase inhibitor; Blood pressure; Nucleus tractus solitarii (Silva, C.C.S. (824) 147)

Prenatal exposure; Working memory; Habituation; Rat offspring (Giustino, A. (844) 201)

Carbon monoxide poisoning
Hypoxic depolarization; Spreading depression; Hippocampus; Place navigation; Neuroprotective effect (Koroleva, V.I. (816) 618)

Cardiac arrest
Cerebral ischemia; Diltiazem; Hippocampal CA1; MK-801; Neuronal damage; Neuroprotection; Synergism (Li, M.M. (826) 44)

Resuscitation; Cerebral blood flow; Amiloride; Hyperemia (Lauro, K.L. (831) 64)

Cardiac ganglia
Parasympathetic neuron; Immunocytochemistry; Reverse transcription polymerase chain reaction; Neuropeptide Y; Microtubule-associated protein-2; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Cardiac referred pain
Cervical spinal cord; Cervical headache; Superior sagittal sinus; Vagal afferent; Cardiopulmonary sympathetic afferent (Chandler, M.J. (829) 204)

Cardiopulmonary receptor
Bötzinger complex; cVRG; Pre-Bötzinger complex; rVRG; Carotid chemoreceptor; Respiratory neuron (Chitravanshi, V.C. (821) 443)

Cardiopulmonary sympathetic afferent
Cervical spinal cord; Cervical headache; Cardiac referred pain; Superior sagittal sinus; Vagal afferent (Chandler, M.J. (829) 204)

Cardiorespiratory reflex
Muskrat; Anterior ethmoidal nerve; C-fiber; Aδ fiber; Diving response (McCulloch, P.F. (830) 24)

Cardiovascular regulation
Limbic system; Noradrenaline; Alpha-adrenergic receptor; Beta-adrenergic receptor (Roder, S. (818) 531)

Chemosensitivity; Medulla oblongata; Electrophysiology; Single-cell RT-PCR; Catecholamines (Kawai, Y. (830) 246)

Cardiovascular response
Cortical blood flow; Descending 5-HT projection; Receptor autoradiography; Retrograde axonal labeling (Underwood, M.D. (824) 45)

Cardiovascular responsivity
Fos; Stress-induced sensitization; Brain–gut interaction; Paraventricular nucleus of the hypothalamus (Bruijnzeel, A.W. (819) 15)

Caribbean ciguatoxin
D-Mannitol; Node of Ranvier of myelinated nerve fibre; Action potential; Axonal volume; Confocal laser scanning microscopy (Mattei, C. (847) 50)

Carotid body
Glomus cell; Intracellular calcium; Membrane potential; Hypoxia; Cobalt; Calcium-selective microelectrode; Indo-1/AM (Zhang, X.Q. (818) 118)

Acetylcholine; Arterial chemoreceptor; Dopamine; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (831) 97)

Hypoxia; Respiratory chain; Low calcium and high magnesium; Presynaptic; Postsynaptic (Rozanov, C. (833) 101)

Acetylcholine; Cholinergic receptor; Cholinergic stimulation; Hypoxia; HPLC (Fitzgerald, R.S. (841) 53)

Arterial chemoreceptor; Cyanide; Hypoxia; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (845) 28)

Carotid body chemoreceptors
Petrosal ganglion neurons; Nitric oxide; Sodium nitroprusside; L-NAME; Acetylcholine (Alcayaga, J. (825) 194)

Carotid chemoreceptor
Bötzinger complex; cVRG; Pre-Bötzinger complex; rVRG; Cardiopulmonary receptor; Respiratory neuron (Chitravanshi, V.C. (821) 443)

Carotid rete
Hypothalamus; Pons; Selective brain cooling; Ultradian wake–sleep cycle; Systemic brain cooling (Azzaroni, A. (844) 206)

Carrageenin
Inflammation; Opioid receptor antagonist; Morphine; Spinal cord; c-Fos (Catheline, G. (824) 105)

c-Fos; Spinal cord; RB101; μ-Opioid receptor; β-Funaltrexamine (Le Guen, S. (834) 200)

Carrier
Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Enantiomer; P-glycoprotein; Selective serotonin reuptake inhibitor; Stereoselectivity; Transport (Rochat, B. (831) 229)

Cartwheel cell
Sodium channel; Auditory; Brain slice; Transgenic mouse (Chen, K. (847) 85)

Caspase
Apoptosis; Reactive oxygen species; Nitric oxide; Glutamate; PARP (Ishikawa, Y. (824) 71)

Alzheimer's disease; Beta-amyloid; Apoptosis; Cortical neuron (Harada, J. (842) 311)

Rat; Cerebral cortex; Neuron; Glutamate; Apoptosis (Hirashima, Y. (849) 109)

Caspase-3
Neurotrophin-3; Ischemia; MCAO; TUNEL; HSP72 (Zhang, W.R. (842) 211)

Castration
Androgen receptor; Brain; Hypogonadal; Mouse; Regulation; Testosterone (Apostolinas, S. (817) 19)

Male rat; Dopamine; Tyrosine hydroxylase; Medial preoptic area; Nitric oxide synthase; NADPH-d; Paraventricular nucleus; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

Cat
REM sleep; Visual system; Activity-dependent development; Thalamus; RO4-1284 (Marks, G.A. (815) 21)

Muscle spindle Ia afferent; Ramp stretch response; Sinusoidal response; Receptor current (Schäfer, S.S. (819) 89)

Microiontophoresis; Opioid peptide; Neuromodulation; Active sleep; Motoneuron (Xi, M.-C. (819) 155)

Trigeminal; Pain; Time; Headache (Hoskin, K.L. (824) 133)

Primary afferent depolarization; Dorsal root reflex; Locomotion; Spinal cord (Gossard, J.-P. (825) 132)

Respiratory control; *N*-methyl-D-aspartate; Non-NMDA; Rhythm and pattern generator (Anderson, M.K. (829) 69)

Respiratory control; Superior laryngeal nerve; Pre-Bötzinger complex; Afferent integration (Anderson, M.K. (831) 306)

Antidromic discharge; Dorsal root afferent; Locomotion; Presynaptic inhibition (Beloozerova, I. (846) 87)

Golgi tendon organ; Classification; Stretch sensitivity (Schäfer, S.S. (846) 210)

Cat adrenal chromaffin cells
Cd^{2+}; Co^{2+}; K^+ channel; Depolarization (Sorimachi, M. (832) 23)

Catalase
Antioxidant; Glutathione (GSH); Superoxide dismutase (SOD); Neuroprotection; Free radical; PD (Iida, M. (838) 51)

Cat brainstem
Vestibular nuclei; Unilateral vestibular neurectomy; Fos expression; Immunohistochemistry (Gustave Dit Duflo, S. (824) 1)

Catecholamine
MADB106; IL-1; Tumor; NK cell (Hodgson, D.M. (816) 200)

Median preoptic nucleus; Paraventricular hypothalamic nucleus; Ventrolateral medulla; Anterograde and retrograde tracing; Rat (Kawano, H. (817) 110)

Lipopolysaccharide; Interleukin-1 receptor antagonist; Hypothalamus; Brain; Serotonin (MohanKumar, S.M.J. (824) 232)

Median preoptic nucleus; Ventrolateral medulla; Neuropeptide Y; Synapse; Retrograde tracing (Kawano, H. (825) 204)

Aminotetralin; Autoradiography; Dopamine; Histamine; Phenylaminotetralin; Sigma; Tyrosine hydroxylase (Booth, R.G. (837) 95)

Neuroblastoma cell; Replication inhibitor; Sodium butyrate; Biochemical differentiation (Matsui, T. (843) 112)

Amygdala; Dopamine; Tyrosine hydroxylase; Dopamine-beta-hydroxylase; Parvalbumin (Brinley-Reed, M. (850) 127)

Catecholamine receptor
Catecholaminergic axon; C1 adrenergic neuron; Reticulospinal neuron; Electron microscopy (Milner, T.A. (821) 200)

Catecholaminergic axon
Catecholamine receptor; C1 adrenergic neuron; Reticulospinal neuron; Electron microscopy (Milner, T.A. (821) 200)

Catecholamines
Antidepressant; Dopamine; Norepinephrine; Turnover (Zangen, A. (824) 243)

Chemosensitivity; Medulla oblongata; Cardiovascular regulation; Electrophysiology; Single-cell RT-PCR (Kawai, Y. (830) 246)

Catecholamine synthesizing enzyme
SIF cell; Pelvic ganglion; Adrenaline; Acetylcholine; Muscarinic receptor (Prud'homme, M.-J. (821) 141)

Cathepsin B
Cathepsin D; Aging; Cerebral cortex; Degenerating cell; Ultrastructural location (Jung, H. (844) 43)

Cathepsin D
Cathepsin B; Aging; Cerebral cortex; Degenerating cell; Ultrastructural location (Jung, H. (844) 43)

Cathepsin L
Acid phosphatase; Cerebral; Ischemia–reperfusion; Penumbra (İşlekel, H. (843) 18)

Cationic amino acid transporter
Rat; Brain; In situ hybridization; Immunohistochemistry; Arginine (Hosokawa, H. (838) 158)

Caudal ventrolateral medulla
Rostral ventrolateral medulla; Arterial blood pressure; Heart rate; Glutamate; GABA (Freda, B.J. (828) 60)

Rostral ventrolateral medulla; Excitatory amino acid; Microdialysis; Blood pressure (Lillaney, R. (844) 164)

Caudate nucleus
Methamphetamine; Neurotoxicity; Selenium; Dopamine; Oxidative stress (Imam, S.Z. (818) 575)

Ibogaine; Methamphetamine; Hyperthermia; Heat-shock-protein; Striatum; Neurotoxicity (Yu, X. (823) 213)

Auditory cortex; Squirrel monkey; Brain evolution (Borgmann, S. (836) 225)

Caudate–putamen
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Caudiverbera
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C57BL/6J mice
Behavioral organization; Locomotor activity; 129/SvJ mice (Paulus, M.P. (835) 27)

C57BL/6J mouse
Suprachiasmatic nucleus; Circadian rhythm; Ventromedial hypothalamus; Glucose utilization; Fasting (Challet, E. (824) 18)

C57BL/6j mouse
Circadian rhythm; Entrainment; Zeitgeber; Morphine (Mistlberger, R.E. (829) 113)

C57BL/6 mouse
Oral self-administration; Endogenous opioid; β-Endorphin; Null mutant (Grisel, J.E. (835) 62)

CB1 receptor
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CB_1 receptor
Rat; Pituitary; Cannabinoid; Vasoactive intestinal peptide (VIP); Prolactin; CAMP; Lactotroph (Rodríguez de Fonseca, F. (841) 114)

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CD38
ADP–ribosyl cyclase; Retina; Ganglionic layer; Inner nuclear layer (Khoo, K.M. (821) 17)

CD36
Blood–brain barrier; Endothelial cell; Intercellular adhesion molecule-1; Vascular cell adhesion molecule-1; E-selectin; Cerebral malaria (Dobbie, M.S. (830) 330)

Cd^{2+}
Cat adrenal chromaffin cells; Co^{2+}; K^+ channel; Depolarization (Sorimachi, M. (832) 23)

CD95-L
Ischemia/reperfusion; Trail; TNF-α; c-*jun*; Necrosis; FADD (Herr, I. (826) 210)

CDP–diacylglycerol
Dopamine D_1-like receptor; Signal transduction; Phosphoinositide; Phospholipase-C; Inositol phosphate (Undie, A.S. (816) 286)

Cell adhesion
Cadherin; Astrocyte; CNS injury; Glial scar; Reactive gliosis; Regeneration (Vázquez-Chona, F. (838) 45)

Cell–cell communication
Connexin; Gap junction; Rat carotid body; cAMP; Primary culture (Abudara, V. (849) 25)

Cell culture
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Blood–brain barrier; Porcine; Transport; Retinoid; Sucrose (Franke, H. (818) 65)

Cell cycle
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Cell death
Amyloid β protein; 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay; Exocytosis; Oxidative stress; Rat hippocampal neurons (Abe, K. (830) 146)

Development; Sensory deprivation; Cerebral cortex (Papadopoulos, G.C. (838) 214)

Apoptosis; cDNA array; Fluoro-Jade; Glutamate; TUNEL (Cirelli, C. (840) 184)

Excitotoxicity; Regeneration; Staurosporine; Glutamate (Small, D.L. (842) 376)

β Amyloid; Neurotoxicity; Vitamin E; Ginkgolide; Apoptosis (Yao, Z.-X. (847) 203)

Neurodegeneration; TUNEL assay; Klenow assay; ISEL; Hippocampus (Adamec, E. (849) 67)

Cell migration
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Cornea; DNA synthesis; Epithelium; Wound healing; Limbus; Conjunctiva (Zagon, I.S. (839) 243)

Cell proliferation
Receptor tyrosine kinase; Eph receptor; Glioblastoma cell line (Bruce, V. (821) 169)

Astrocyte; Noradrenaline; α_1-Receptor; Phospholipase D (Kötter, K. (830) 138)

Cell swelling
Astrocyte; Excitotoxicity; Energy depletion; Volume-sensitive organic osmolyte-anion channel (Rutledge, E.M. (842) 39)

Cellular transport
Brain capillary endothelial cell; L-DOPA; L-5-HTP (Gomes, P. (829) 143)

Cell volume
Osmotic effect; Hyponatremia; Intracellular calcium; Potassium current; Calcium current (Somjen, G.G. (851) 189)

Center of mass
Equilibrium; Feedforward and feedback control; Human (Vernazza-Martin, S. (846) 12)

Central control of salt gland function
Marine bird; Osmoregulation; Nitric oxide; NADPH-diaphorase; Hypothalamus; Avian antidiuretic hormone; Cerebrospinal fluid contacting neuron (Hübschle, T. (825) 22)

Central lateral thalamus
Midline thalamic nuclei; Central medial thalamus; c-Fos; Morphine; β-FNA (Frankel, P.S. (838) 222)

Central medial thalamus
Midline thalamic nuclei; Central lateral thalamus; c-Fos; Morphine; β-FNA (Frankel, P.S. (838) 222)

Central nervous disorder
Lubeluzole; Neuronal lesion; Retina; Spreading depression (Wiedemann, M. (842) 243)

Central nervous system
HIV; AIDS; Astrocytes; Receptor; Endocytosis (Hao, H.-N. (823) 24)

Neurite outgrowth; Myelin; Dorsal root ganglion; Regeneration; Peripheral nervous system (Ng, W.P. (836) 49)

Central nervous system inflammation
Cytochrome P450; Lipopolysaccharide (Renton, K.W. (842) 139)

Central nucleus of the amygdala
Corticotropin-releasing factor; Locus coeruleus; Glucocorticoid receptor; Norepinephrine; Barrington's nucleus; Bed nucleus of the stria terminalis (Lechner, S.M. (816) 17)

Mu-opioid receptor; Immunohistochemistry; Pain; Blood pressure (Chamberlin, N.L. (827) 198)

Central pattern generators
Proctolin; Cotransmitter; Crustacean cardioactive peptide; Lobster (Marder, E. (848) 35)

Centrencephalic system
Absence seizure; Primary generalized epilepsy; Brainstem auditory evoked potential; Simultaneous analysis; Lower brainstem (Kohsaka, S. (837) 277)

Centromedian–parafascicular complex
Pain; Antinociception; Evoked potential; Brain rewarding stimulation; Rabbit ontogenesis (Butkevich, I.P. (834) 13)

Ceramide
TNF; SPP; Mesencephalic neuron; Neuroprotection; Parkinson's disease (Shinpo, K. (819) 170)

PC12 cell; Trophic factor withdrawal; Free radical; Nuclear factor-κB (Lambeng, N. (821) 60)

Cerebellar
Parallel fiber; Granule cell; Aging; Cerebellum (Huang, C.-m. (840) 148)

Cerebellar culture
Neurotrophin; Purkinje cell; Synaptogenesis; Activity-dependent plasticity (Seil, F.J. (818) 561)

Cerebellar fastigial nucleus
Focal ischemia; ATP-dependent potassium channel; Pre-conditioning; Stimulation; Glibenclamide (Golanov, E.V. (842) 496)

Cerebellar granule cells
Kainate; Apoptosis; Necrosis; Calcium; Voltage-gated calcium channel (Leski, M.L. (828) 27)

Cerebellar granule neuron
Glutathione; L-Buthionine sulfoximine; Reactive oxygen intermediate; Mitochondria; Apoptosis (Wüllner, U. (826) 53)

Neurotoxicity; Aluminum; Apoptosis; Neuroglial culture; Astroglial culture (Suárez-Fernández, M.B. (835) 125)

Cerebellar Purkinje cell
ω-Agatoxin IVA (ω-Aga-IVA); P/Q-type Ca^{2+} channel; α-Eudesmol; Synaptosome; NG108-15 cell (Asakura, K. (823) 169)

Cerebellum
Extracellular ATP; Ecto-ATPase; Granule cell layer; Synaptic transmission; Signal transduction (Zinchuk, V.S. (815) 111)

Alzheimer's disease; Atrophy; Neuronal loss; Morphometry; Clinicopathological correlation (Wegiel, J. (818) 41)

Insulin; SHC; GRB2; Insulin receptor; Brain (De L.A. Fernandes, M.L. (826) 74)

Purkinje neuron; Alcohol; AMPA; Intracellular calcium; Culture (Netzeband, J.G. (826) 270)

Purkinje cell; Hereditary ataxia; Tyrosine hydroxylase; Immunohistochemistry (Sawada, K. (829) 107)

Hippocampus; Entorhinal cortex; Midtemporal gyrus; Midfrontal gyrus; Polymerase chain reaction (Yasojima, K. (831) 301)

Postnatal ethanol treatment; γ-Aminobutyric $acid_A$ receptor; Neuronal development; Purkinje neuron; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (832) 124)

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Anxiety; Benzodiazepine; $GABA_A$ receptor subtype; Elevated plus maze (Vekovischeva, O.Y. (837) 184)

Parallel fiber; Granule cell; Aging; Cerebellar (Huang, C.-m. (840) 148)

Purkinje cell; Ataxia; Tyrosine hydroxylase; *Dilute–lethal* mouse (Sawada, K. (844) 188)

Vestibular compensation; Protein kinase C; Labyrinthectomy; Purkinje cell; Signal transduction protein (Balaban, C.D. (845) 97)

Methylmercury; Sialyltransferase; Neural cell adhesion molecule; Development; Polysialylation (Dey, P.M. (845) 139)

HSP27; Glucocorticoid; Stress; Protein synthesis; Heat shock (Barr, C.S. (847) 9)

Cerebral
Cathepsin L; Acid phosphatase; Ischemia–reperfusion; Penumbra (İşlekel, H. (843) 18)

Cerebral amyloid angiopathy
Amyloid β precursor protein; In situ hybridization; HCHWA-D; Alzheimer's disease (Natté, R. (828) 179)

Cerebral arteriole
Nitric oxide; YC-1; Adenosine; Acetylcholine; ODQ; Nitroprusside (Faraci, F.M. (821) 368)

Cerebral blood flow
Angiotensin II receptor expression; In situ hybridization; [^{125}I]Sar^1-Ang II; Receptor autoradiography; Hypoxia; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Monoamine oxidase; Phenylethylamine; Autoradiography; Iodo-antipyrine; Mouse (Scremin, O.U. (824) 36)

Rostral ventrolateral medulla; ATP-sensitive potassium channel; Hypoxia; Oxygen; Arterial pressure (Golanov, E.V. (827) 210)

Intracerebral hemorrhage; Subdural hematoma; Cerebral ischemia; Brain edema (Patel, T.R. (829) 125)

Cardiac arrest; Resuscitation; Amiloride; Hyperemia (Lauro, K.L. (831) 64)

Acetylcholine; Cholinergic system; GABA; Rat; *substantia innominata* (Barbelivien, A. (834) 223)

Cerebral ischemia; Brain edema; Energy metabolism; Induced hypertension (Hosomi, N. (835) 188)

Neonatal rat; Periventricular leukomalacia; White matter injury; Cerebral hypoperfusion; Amyloid precursor protein (Uehara, H. (837) 213)

Complement; C1-esterase inhibitor; Cortical vein occlusion; Rat (Heimann, A. (838) 210)

Cerebral glucose use; Acetylcholine; Microdialysis; Substantia innominata; Rat (Barbelivien, A. (840) 115)

Iodoantipyrine; Tracer diffusion; Autoradiography (Greenberg, J.H. (842) 184)

GYKI 52466; Excitatory amino acid (Sinha, A.K. (842) 230)

Nitric oxide; Shear stress (Mashour, G.A. (842) 233)

Cerebrovascular resistance; Cerebral vasodilator tone; Shear stress; Sympathetic activity (Diéguez, G. (851) 133)

Cerebral blood vessel
Substance P; Substance P receptor (neurokinin-1 receptor); Neurokinin (Shimizu, T. (830) 372)

Cerebral circulation
Newborn; Cyclic nucleotide; Nitric oxide (Armstead, W.M. (816) 158)

Acetylcholine; Alzheimer's disease; 192 IgG-saporin; Basal forebrain (Waite, J.J. (818) 1)

Newborn; Cyclic nucleotide (Armstead, W.M. (825) 68)

Newborn; Cyclic nucleotide; Opioid; Nitric oxide (Armstead, W.M. (835) 315)

Newborn; Hyperoxia; Endothelin (Armstead, W.M. (842) 252)

Cerebral cortex
Corpus callosum; Hippocampal commissure; Anterior commissure; Allometry; Morphometry (Bishop, K.M. (815) 358)

Nitric oxide; Nitric oxide synthase; Amyotrophic lateral sclerosis; Superoxide dismutase; cGMP; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

Fos immunohistochemistry; Stress; Endotoxin; Restraint; Hypothalamic paraventricular nucleus (Yokoyama, C. (816) 267)

Immunocytochemistry; Electron microscopy; NR2B; Hippocampus; Rat (Charton, J.P. (816) 609)

Magnetoencephalography; Aging; Gender; Sex; SEF; SEP; Evoked response (Huttunen, J. (818) 196)

Glutamate; Spreading depression; Amino acid; Blood flow (Iijima, T. (818) 553)

Chronic ethanol; Withdrawal; NMDA receptor; Alternative splicing; Rat (Hardy, P.A. (819) 33)

HGF/SF; c-*met*; tPA; In situ hybridization; Hippocampus (Thewke, D.P. (821) 356)

$PACAP_{38}$; $PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Hearing; Thalamus (Cetas, J.S. (830) 203)

PAF; Protein tyrosine phosphorylation (Calcerrada, M.C. (835) 275)

Cerebral ischemia; Glutamate; Amino acid; Arachidonic acid; Free fatty acid; Glucose; Hyperglycemia; Rat (Phillis, J.W. (837) 177)

Cell death; Development; Sensory deprivation (Papadopoulos, G.C. (838) 214)

Striatum; Thalamus; Connection; Medial agranular (Reep, R.L. (841) 43)

Cathepsin B; Cathepsin D; Aging; Degenerating cell; Ultrastructural location (Jung, H. (844) 43)

Melittin; Phospholipase A_2; Amino acid; Free fatty acid; Glutamate; Arachidonic acid (Phillis, J.W. (847) 270)

Rat; Neuron; Glutamate; Caspase; Apoptosis (Hirashima, Y. (849) 109)

Cerebral endothelium
Choroid plexus; Cerebrospinal fluid; Calcium ATPase; Sodium–potassium ATPase (Keep, R.F. (815) 200)

Cerebral focal ischemia
Fastigial cerebellar nucleus; Spreading depression; Neuroprotection; Preconditioning; Periinfarct depolarization (Golanov, E.V. (818) 304)

Cerebral glucose metabolism
2-Deoxyglucose; Status epilepticus; Perforant path stimulation; Rat (Pereira de Vasconcelos, A. (838) 110)

Cerebral glucose use
Cerebral blood flow; Acetylcholine; Microdialysis; Substantia innominata; Rat (Barbelivien, A. (840) 115)

Cerebral glucose utilization
Plasticity; Deafferentation; Nitric oxide; Somatosensory system (Won Sohn, N. (816) 396)

Cerebral hypoperfusion
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Cerebral infarction
Fibroblast growth factor-13; Focal cerebral ischemia (Yao, D.-L. (818) 140)

Antisense oligonucleotide; Immediate early gene; c-*fos*; Cerebral ischemia (Zhang, Y. (832) 112)

Cerebral ischaemia
Glycine site antagonist; GV150526A; L-701; 324; ACEA1021; LY293558; Gerbil; Neuroprotection (Hicks, C.A. (819) 65)

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DNA repair; ERCC6; Dextromethorphan (Yin, K.-J. (815) 29)

Cortical lesion; Plasticity; GABA receptor (Neumann-Haefelin, T. (816) 234)

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Mitochondria; Reperfusion; Hypothermia; Cytochrome c oxidase; Respiratory chain (Canevari, L. (817) 241)

Immediate early gene; Neuronal death; Hippocampus; Gene expression; JunB-glial fibrillary acidic protein (Whitfield, P.C. (818) 450)

CREB; Phosphorylation; Signal transduction (Tanaka, K. (818) 520)

Cytokine; Mouse; E-selectin (Hill, J.K. (820) 45)

Middle cerebral artery occlusion; Circle of Willis; Hippocampus; Mouse; Rat (Özdemir, Y.G. (822) 260)

Cardiac arrest; Diltiazem; Hippocampal CA1; MK-801; Neuronal damage; Neuroprotection; Synergism (Li, M.M. (826) 44)

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Amino acid release; Swelling; Volume regulation; Glutamate; GABA; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

γ-Aminobutyric acid; Neuroprotection; Hypothermia; CA1 (Dowden, J. (829) 1)

Intracerebral hemorrhage; Subdural hematoma; Brain edema; Cerebral blood flow (Patel, T.R. (829) 125)

Seizure; GABA; NMDA; Lidocaine; Pentylenetetrazol (Kim, D.-C. (831) 131)

Antisense oligonucleotide; Immediate early gene; c-*fos*; Cerebral infarction (Zhang, Y. (832) 112)

8-Hydroxy-2′-deoxyguanosine; Oxidative stress; Rat; Terminal deoxynucleotidyl transferase-mediated dUTP-biotin in situ nick end labeling (TUNEL) (Hayashi, T. (832) 159)

Brain edema; Cerebral blood flow; Energy metabolism; Induced hypertension (Hosomi, N. (835) 188)

Selectin (Soriano, S.G. (835) 360)

Eigenimage; Histopathology (rat); Magnetic resonance imaging (Jacobs, M.A. (837) 83)

t-PA; u-PA; Mice; Embolic stroke (Ahn, M.Y. (837) 169)

Glutamate; Amino acid; Arachidonic acid; Free fatty acid; Glucose; Hyperglycemia; Cerebral cortex; Rat (Phillis, J.W. (837) 177)

Matrix metalloproteinase; Reperfusion injury; Blood–brain barrier; Brain edema (Fujimura, M. (842) 92)

Intercellular adhesion molecule 1 (ICAM-1); Reactive astrocyte; Knockout mouse; Selective neuronal vulnerability; Hippocampus (Kitagawa, K. (847) 166)

Biliverdin reductase; Heme oxidation; Bilirubin; Antioxidant (Panahian, N. (850) 1)

Cerebral ischemia, focal
Photothrombosis; Reperfusion; Penumbra; Evolution of ischemia; Rat (Hu, X.L. (849) 175)

Cerebral malaria
Blood–brain barrier; Endothelial cell; Intercellular adhesion molecule-1; Vascular cell adhesion molecule-1; E-selectin; CD36 (Dobbie, M.S. (830) 330)

Cerebral metabolic rate of glucose
Cholinergic neuron; Nucleus basalis magnocellularis; Positron emission tomography (Katsumi, Y. (837) 75)

Cerebral metabolism
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Hypoxia–ischemia; Hypoglycemia; Fasting; Insulin; Newborn piglet (Chang, Y.S. (844) 135)

Cerebral microvascular plasma perfusion
Three-dimensional image analysis; Triple fluorescent labeling; GFAP; MAP2; Embolic stroke; Laser-scanning confocal microscopy (Zhang, Z.G. (844) 55)

Cerebral microvessel
Tie 1; Embolic MCA occlusion; Rat; In situ hybridization (Zhang, Z.G. (847) 338)

Cerebral palsy
Oxidative stress; Oxygen free radicals; Reperfusion; White matter (Jelinski, S.E. (815) 150)

Cerebral temperature
Paradoxical sleep; Slow-wave sleep; Constant darkness; Constant light; Prolactin; Melatonin (Lobo, L.L. (835) 282)

Cerebral vasodilator tone
Cerebral blood flow; Cerebrovascular resistance; Shear stress; Sympathetic activity (Diéguez, G. (851) 133)

Cerebral vasospasm
Subarachnoid hemorrhage; Amyloid precursor protein; Nitric oxide; Neurological deficit; Animal model (Ryba, M.S. (850) 225)

Cerebrospinal fluid
Choroid plexus; Cerebral endothelium; Calcium ATPase; Sodium–potassium ATPase (Keep, R.F. (815) 200)

Multiple sclerosis; Ferritin; Transferrin; Iron (LeVine, S.M. (821) 511)

Manganese; Iron; Transferrin receptor; Glutamine synthetase; Choroid plexus (Zheng, W. (833) 125)

cAMP; cGMP; Tau protein; Alzheimer's disease (Martínez, M. (846) 265)

Cerebrospinal fluid contacting neuron
Marine bird; Osmoregulation; Nitric oxide; NADPH-diaphorase; Hypothalamus; Central control of salt gland function; Avian antidiuretic hormone (Hübschle, T. (825) 22)

Cerebrovascular resistance
Cerebral blood flow; Cerebral vasodilator tone; Shear stress; Sympathetic activity (Diéguez, G. (851) 133)

Cerebroventricular perfusate
Orphanin FQ; Chronic morphine tolerance; Radioimmunoassay; Amygdala; Periaqueductal gray (Yuan, L. (826) 330)

Cerebrum
Fluorescent; Motor cortex; Movement; Rat; Thalamus; Tracer (Gu, X. (835) 175)

Cervical headache
Cervical spinal cord; Cardiac referred pain; Superior sagittal sinus; Vagal afferent; Cardiopulmonary sympathetic afferent (Chandler, M.J. (829) 204)

Cervical spinal cord
Cervical headache; Cardiac referred pain; Superior sagittal sinus; Vagal afferent; Cardiopulmonary sympathetic afferent (Chandler, M.J. (829) 204)

C1-esterase inhibitor
Complement; Cerebral blood flow; Cortical vein occlusion; Rat (Heimann, A. (838) 210)

C fiber
A fiber; Topographical mapping; Nociception; Somatosensory function; Electrical stimulation (Shaw, F.-Z. (824) 183)

C-fiber
Muskrat; Anterior ethmoidal nerve; Aδ fiber; Diving response; Cardiorespiratory reflex (McCulloch, P.F. (830) 24)

C-fibre response
Nociception; Withdrawal reflex; Pain; Noxious stimulation; Single motor unit (Mazario, J. (816) 512)

c-*fos*
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SFO; Angiotensin I; Drinking; Vasopressin neuron (Xu, Z. (817) 67)

Stress; Immediate early gene; Learned helplessness; Lateral septum (Steciuk, M. (822) 256)

Immediate early gene; Striatum; Globus pallidus; Entopeduncular nucleus; Subthalamic nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

Iron; Oxidative stress; Hydroxyl radical; Immediate early gene; Parkinson's disease (Hironishi, M. (828) 145)

Antisense oligonucleotide; Immediate early gene; Cerebral ischemia; Cerebral infarction (Zhang, Y. (832) 112)

Ethacrynic acid; Nerve growth factor; Generalized tonic–clonic convulsion; Seizure susceptibility; Parvalbumin (Suzukawa, J. (834) 89)

Immediate-early genes; Subthalamic nucleus; Neuroleptic; Dopamine; Primate (Wirtshafter, D. (835) 154)

Focal cerebral ischemia; TGF-β1; Cytokine; GFAP; hsp70; MK-801; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

Development; Piglet; Hypercapnia; Nucleus of the solitary tract; Area postrema (Sica, A.L. (837) 106)

C-*fos*
Hippocampal formation; Nociception; Rat (Funahashi, M. (827) 215)

***C-fos* protein**
Brain–gut axis; Regulation of food intake; Cholecystokinin; Satiety (Zittel, T.T. (846) 1)

C6 glioma cell
D2 receptor; Glial fibrillary acidic protein; p38 MAPK; Signal transduction; Mitogenesis; Astrocyte; Reactive oxygen species (Luo, Y. (850) 21)

[2-^{13}C] Glucose
^{13}C NMR spectroscopy; Anaplerotic pathway, Glutamate; Glutamine; GABA (Kanamatsu, T. (841) 11)

CGP55845A
Substantia nigra pars reticulata; GABA; IPSC; Tiagabine (Chan, P.K.Y. (838) 18)

CGRP
GDNF; Immunohistochemistry; Trigeminal ganglion; Trigeminal sensory nucleus; Man; SP; trkA (Quartu, M. (847) 196)

Channel dephosphorylation
Locus coeruleus neuron; Metabolic inhibition; ATP-activated K^+ channel; Ca^{2+}-dependent K^+ channel (Koyama, S. (828) 189)

Charybdotoxin
K_{Ca} channel; Rat cerebellum; Noxiustoxin; *Androctonus australis* Hector; Scorpion venom (Ottolia, M. (815) 410)

ChAT
Acetylcholine; Microdialysis; Muscarinic antagonist; NBM (Gutiérrez, H. (834) 136)

Chattering
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Chelerthyrine chloride
Circadian; Protein kinase C; Rhythm; Suprachiasmatic (Schak, K.M. (840) 158)

Chelerythrine
Retina; Rod outer segment; Taurine uptake; Protein kinase C (Militante, J.D. (818) 368)

Chemokine
Astrocyte; Gender; Gene disruption; Nitric oxide synthase-2 (Loihl, A.K. (830) 155)

Vasoactive intestinal peptide; Peptide T; gp120; Acquired immunodeficiency syndrome; Secretion (Brenneman, D.E. (838) 27)

Chemoreceptor
Glossopharyngeal nerve; Nucleus tractus solitarius; Spinal nucleus of the trigeminal nerve; Baroreceptor; Respiration; Arousal (Blessing, W.W. (816) 405)

Chemosensation
Cyclic nucleotide-gated channel; cGMP; cAMP; Thermosensation; *Caenorhabditis elegans* (Komatsu, H. (821) 160)

Chemosensitivity
Medulla oblongata; Cardiovascular regulation; Electrophysiology; Single-cell RT-PCR; Catecholamines (Kawai, Y. (830) 246)

Chemosensory neurons
Patch clamp; 5-HT_3 receptors; Ligand-gated channels (Zhong, H. (816) 544)

Chemotopic projection
G protein; Olfaction; Olfactory bulb; Accessory olfactory bulb; Olfactory neuron (Wekesa, K.S. (837) 117)

Chewing
Acetylcholine; Dopamine, D1; c-AMP; Tremor; Parkinson; Motor; Vacuous (Mayorga, A.J. (829) 180)

Chewing neuron
Deglutition–mastication interaction; Chewing orbital cortex; Swallowing neuron; Medulla oblongata (Lamkadem, M. (832) 97)

Chewing orbital cortex
Deglutition–mastication interaction; Swallowing neuron; Chewing neuron; Medulla oblongata (Lamkadem, M. (832) 97)

Chick
Myelin; Osteopontin; Immunohistochemistry; Western blot; Demyelination (Kang, T.-C. (818) 527)

$PACAP_{38}$; $PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Pineal gland (Nowak, J.Z. (830) 195)

Acoustic injury; Auditory function; Basilar papilla; Cochlear nerve; Single-unit recordings; Rate–intensity functions; Recovery of function (Plontke, S.K.-R. (842) 262)

Adenosine; Brain slice; Passive avoidance learning; Adenosine A_1 receptor; Adenosine A_2 receptor (Daisley, J.N. (847) 149)

Chick embryo
Neuronal death; Antioxidant; Salicylic acid; Redox status; Retina (Castagné, V. (840) 162)

Chicken
Thyrotropin-releasing hormone; Brain; Pituitary; Nucleus; Ontogeny (Geris, K.L. (818) 260)

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Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase; Circadian; Cyclic AMP (Grechez-Cassiau, A. (835) 97)

Chick retina
Extracellular potassium concentrations; Slow voltage variation; Brain damage; Ischemia; Rose bengal; Trolox; Membrane permeability (Netto, M. (827) 221)

Radial glia; Cyclic AMP; Neurotransmitter uptake (Gadea, A. (838) 200)

Spermine; NMDA receptor (Calderón, F. (844) 150)

Chinchilla laniger
NMDA R1 receptor; Vestibular periphery (Ishiyama, G. (851) 270)

Choice reaction time
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Cholecystokinin
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Brain–gut axis; Regulation of food intake; *C-fos* protein; Satiety (Zittel, T.T. (846) 1)

Neuropeptide; Morphine; Opioid; Neuropathy; Inflammation; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Cholera toxin
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Cholera toxin subunit B
Pseudorabies virus; Transsynaptic transport; Tract-tracing; Retrograde labeling; Inferior olive (Chen, S. (838) 171)

Cholestatic liver disease
Tocopherol transfer protein; Ataxia with vitamin E deficiency; Familial isolated vitamin E deficiency; Vitamin E; Alzheimer's disease; Down's syndrome; Abetalipoproteinemia (Copp, R.P. (822) 80)

Cholesterol and fatty acid metabolism
Proprotein convertase; Subtilase; Neuropeptide; Precursor processing; SKI-1/S_1P (Seidah, N.G. (848) 45)

Choline
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Choline acetyltransferase activity
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Cholinergic
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Alzheimer's disease; Basal forebrain; Ovariectomy; Gonadal; Steroids (Mufson, E.J. (849) 253)

Cholinergic basal forebrain
Working memory; Radial maze; 192 IgG-saporin; Immunotoxin; Acetylcholine (Wrenn, C.C. (847) 284)

Cholinergic cell
Nitric oxide; Pedunculopontine tegmentum; Sleep; Wakefulness; Rat (Hars, B. (816) 209)

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Nucleus basalis magnocellularis; Positron emission tomography; Cerebral metabolic rate of glucose (Katsumi, Y. (837) 75)

Brainstem; Vigilance; Micturition; Enuresis; Barrington's nucleus (Koyama, Y. (840) 45)

Ribosome inactivating protein; Basal forebrain; Neostriatum; Immunocytochemistry (Kwok, K.H.H. (846) 154)

Cholinergic receptor
β-Endorphin analgesia; AP7; MK801; NMDA receptor; Scopolamine; Mecamylamine; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

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Inner ear; Cochlear efferent system; Spiral ganglion neurons; Muscarinic receptor; Calcium signaling (Rome, C. (846) 196)

Cholinergic stimulation
Acetylcholine; Carotid body; Cholinergic receptor; Hypoxia; HPLC (Fitzgerald, R.S. (841) 53)

Cholinergic system
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Chondroitin sulphate proteoglycan
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Chondroitin sulphate proteoglycans
Extracellular matrix; Fast-firing neurons; Parvalbumin; Triple fluorescence labelling; Rat; Monkey (Härtig, W. (842) 15)

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Angiotensin II; Sympathetic nervous system; Nitric oxide; Rat (Chodobski, A. (816) 518)

Hexose transporter; GLUT1; GLUT2; GLUT3; Human fetal brain; Blood–brain barrier; Brain capillary (Nualart, F. (824) 97)

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Manganese; Iron; Cerebrospinal fluid; Transferrin receptor; Glutamine synthetase (Zheng, W. (833) 125)

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Chronic
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Chronic citalopram treatment
Autoreceptor sensitivity; Dorsal hippocampus; Frontal cortex; Antidepressant; In vivo microdialysis; Serotonin (5-HT, 5-hydroxytryptamine) (Hjorth, S. (835) 224)

Chronic constriction injury
Neuropathic pain; Allodynia; Plasticity; Transganglionic axonal tracer (Nakamura, S.-i. (818) 285)

N-type voltage-dependent Ca^{2+} channel; Ca^{2+}-activated K^+ channel (Honma, Y. (832) 195)

Pain; Inhibitory neurotransmitter; Dorsal horn (Eaton, M.J. (835) 334)

Chronic corticosterone
Corticosterone; Neural cell adhesion molecule; Neural plasticity; Frontal cortex; Hypothalamus (Sandi, C. (828) 127)

Chronic ethanol
Withdrawal; NMDA receptor; Alternative splicing; Cerebral cortex; Rat (Hardy, P.A. (819) 33)

Acute ethanol; Adenosine; Hypothalamic β-endorphin neuron; Hormone secretion; cAMP production (Boyadjieva, N. (824) 112)

Chronic EtOH
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Chronic morphine
LTP; Hippocampus; Slice; Withdrawal (Mansouri, F.A. (815) 419)

Chronic morphine tolerance
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Chronic pain
Neuropeptide FF; Rat spinal cord; Monoarthritis; Nociception; Descending inhibitory control (Lombard, M.-C. (816) 598)

Chronic stress
Adrenalectomy; HPA axis; Pituitary; Hypothalamus (Martí, O. (821) 1)

Anxiety disorders; Cold stress; Foot shock; In vivo microdialysis; Norepinephrine (Jedema, H.P. (830) 211)

Paraventricular thalamus; Circadian rhythm; Energy balance; Feeding; Temperature (Bhatnagar, S. (851) 66)

Chronic treatment
Feeding behavior; Feeding circadian rhythm; Intracerebroventricular infusion; Blood glucose (Yamanaka, A. (849) 248)

Ciliary neurotrophic factor
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Cingulate cortex
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Circadian
Suprachiasmatic; PKC; Hamster; *Arvicanthis*; Vasopressin; Signal transduction (Bult, A. (816) 190)

Suprachiasmatic nucleus; Retina; Illumination; Electrophysiology; Degu; Rat; Entrainment (Jiao, Y.-Y. (817) 93)

Chicken; Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase; Cyclic AMP (Grechez-Cassiau, A. (835) 97)

Adenylate cyclase; Cyclic AMP; Protein kinase A; Rhythm; Suprachiasmatic (Lee, J.M. (835) 350)

Chelerthyrine chloride; Protein kinase C; Rhythm; Suprachiasmatic (Schak, K.M. (840) 158)

GAD_{65}; GAD_{67}; SCN; In situ hybridization; GABA; Rat (Huhman, K.L. (851) 266)

Circadian clock
Arousal; Intergeniculate leaflet; Non-photic entrainment; Reticular formation (Lewandowski, M.H. (827) 139)

Constant darkness; Immunohistochemistry; Protein expression; Glutamate receptor (Chambille, I. (833) 27)

Circadian oscillator
Output pathway; Adenosine 3′,5′-cyclic monophosphate; Melatonin; Retinal photoreceptor layer; *Xenopus laevis* (Hasegawa, M. (824) 161)

Circadian pacemaker
Immunocytochemistry; Biogenic amine; Neurotransmitter; Insect brain (Loesel, R. (842) 408)

Circadian rhythm
Melatonin; Dopamine; Retina; Microdialysis; Pigeon (Adachi, A. (815) 435)

Entrainment; Photoperiod; Melatonin; Cortisol; Human (Vondrašová-Jelínková, D. (816) 249)

Aging; Arginine-vasopressin; Vasopressin; Common vole; Suprachiasmatic nucleus (Van der Zee, E.A. (816) 572)

Single unit activity; Rat; Singularity; Oscillator; Clock resetting (Franken, P. (818) 34)

Nocturnal; Diurnal; Ventrolateral preoptic area; Fos; Suprachiasmatic nucleus (Novak, C.M. (818) 375)

Suprachiasmatic nucleus; Melatonin; Serotonin; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (818) 408)

Suprachiasmatic nucleus; Pseudorabies virus; Hypothalamus; Neuroanatomy (Leak, R.K. (819) 23)

Fos; Jun-B; Suprachiasmatic nucleus; Intergeniculate leaflet (Beaulé, C. (821) 95)

Suprachiasmatic nucleus; Neuropeptide Y, NPY; γ-Aminobutyric acid, GABA; Baclofen; Rat, brain slice (Biggs, K.R. (821) 461)

Suprachiasmatic nucleus; Ventromedial hypothalamus; Glucose utilization; Fasting; C57BL/6J mouse (Challet, E. (824) 18)

Serotonin receptor; Suprachiasmatic nucleus; Intergeniculate leaflet; Lateral geniculate nucleus; Raphe nuclei; Aging (Duncan, M.J. (829) 39)

Entrainment; Zeitgeber; Morphine; C57BL/6j mouse (Mistlberger, R.E. (829) 113)

Melatonin; Antagonist; Mouse; Phase shift (Weibel, L. (829) 160)

Arylalkylamine *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Melatonin (*N*-acetyl-5-methoxytryptamine); Planarian (Itoh, M.T. (830) 165)

Suprachiasmatic nucleus; Extraocular light perception; Cryptochrome; Photic entrainment; Visual system (Meijer, J.H. (831) 337)

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Rd mouse; Retina; Fos (Huerta, J.J. (834) 122)

Suprachiasmatic nucleus; Substance P; Glutamate release; NMDA receptor antagonist; Firing rhythm (Hamada, T. (836) 190)

Suprachiasmatic nucleus; Inositol 1,4,5-trisphosphate receptor; Rat brain; Glial fibrillary acidic protein (Hamada, T. (838) 131)

Suprachiasmatic nucleus; γ-Aminobutyric acid; GABA; Tetrodotoxin; Muscimol; Rat; Brain slice (Bergeron, H.E. (841) 193)

Serotonin; Excitatory amino acid; NMDA; Receptor (Kennaway, D.J. (845) 102)

Methamphetamine; Sensitization (Nikaido, T. (845) 112)

IGL; Suprachiasmatic nucleus; Non-photic; Neuropeptide Y; Serotonin (Schuhler, S. (849) 16)

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Paraventricular thalamus; Chronic stress; Energy balance; Feeding; Temperature (Bhatnagar, S. (851) 66)

Circadian rhythm immunofluorescence
Hypothalamus; Vasopressin; Vasoactive intestinal peptide; Confocal laser scanning microscopy (Romijn, H.J. (832) 47)

Circadian rhythms
Suprachiasmatic nucleus; Rat hypothalamic slice; Electrophysiology; Whole-cell recording (Schaap, J. (815) 154)

Circle of Willis
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Circulation
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Circumventricular organ
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Angiotensin (ANG) I; Angiotensin (ANG) II; Angiotensin-converting enzyme (ACE); Converting enzyme inhibitor (CEI); Drinking; Pressor response; Subfornical organ (Robinson, M.M. (842) 55)

β-CIT
Parkinson's disease; MPTP; Monkey; Single photon emission computed tomography; Dopamine transporter (Eberling, J.L. (832) 184)

Citalopram
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Citrulline
Nitric oxide synthase; Postmortem human brain; [^{3}H]L-Citrulline formation assay; Western blot analysis; Arginine (Blum-Degen, D. (834) 128)

Citrulline–NO cycle
Nitric oxide; Nitric oxide synthase; Arginiosuccinate synthetase; Glioma cells (Zhang, W.Y. (849) 78)

c-jun
Ischemia/reperfusion; Trail; CD95-L; TNF-α; Necrosis; FADD (Herr, I. (826) 210)

Classical conditioning
Calcium-induced calcium release; Ryanodine receptor; Photoreceptor; Associative learning; Light adaptation (Blackwell, K.T. (822) 114)

Classification
Muscle spindle; Rabbit; Trigeminal system; Firing pattern; Halothane anesthesia (Kato, T. (833) 1)

Golgi tendon organ; Cat; Stretch sensitivity (Schäfer, S.S. (846) 210)

Cl^-–ATPase
LiCl; Cl^--sensitive fluorescent dye (MQAE); Inositol; Intracellular Cl^- concentration; Hippocampal pyramidal neuron (Yagyu, K. (821) 530)

Cl^--conductance
Molluscan neuropeptide; MIP; K^+-conductance (Kiss, T. (830) 258)

Cl^- current
Zinc; Strychnine; Glycine; Perforated patch recording (Doi, A. (816) 424)

Climbing fiber
Calcium; Dendrite; Neuromodulator; Purkinje cell (Pisani, A. (831) 113)

$^{36}Cl^-$ influx
Antidepressant; Amitriptyline; $GABA_A$ receptor; Recombinant WSS-1 cell; HEK-293 cell (Malatynska, E. (851) 277)

Clinicopathological correlation
Alzheimer's disease; Cerebellum; Atrophy; Neuronal loss; Morphometry (Wegiel, J. (818) 41)

Clock resetting
Circadian rhythm; Single unit activity; Rat; Singularity; Oscillator (Franken, P. (818) 34)

Clomipramine
N-Methyl-D-aspartate; Dopamine; Raphe nuclei; Intracerebral dialysis (Pallotta, M. (823) 217)

Clonidine
Fusaric (5-butylpicolinic) acid; Dopamine-β-hydroxylase; Food intake; Chicken (Bungo, T. (826) 313)

Cl^--sensitive fluorescent dye (MQAE)
LiCl; Cl^-–ATPase; Inositol; Intracellular Cl^- concentration; Hippocampal pyramidal neuron (Yagyu, K. (821) 530)

c-met
HGF/SF; tPA; In situ hybridization; Cerebral cortex; Hippocampus (Thewke, D.P. (821) 356)

C57 mouse
Corpus callosum; Knockout; ES cell; 129 mouse; Spatial learning; Non-spatial learning (Balogh, S.A. (836) 38)

^{13}C NMR spectroscopy
[2-^{13}C] Glucose; Anaplerotic pathway, Glutamate; Glutamine; GABA (Kanamatsu, T. (841) 11)

CNS gliosis
Glial fibrillary acidic protein; Iminodipropionitrile neurotoxicity; Nitrile neurotoxicity; Retinal degeneration and gliosis; Sensory toxicity (Seoane, A. (833) 258)

CNS inflammation
TNF-α; Transgenic mice; Learning; Inflammation; Cytokine; Behavior; Demyelination (Aloe, L. (840) 125)

CNS injury
Cadherin; Astrocyte; Glial scar; Reactive gliosis; Cell adhesion; Regeneration (Vázquez-Chona, F. (838) 45)

CNTF
NGF; Induction; Cortical astrocyte; Interaction; $p75^{NTR}$; Rat (Semkova, I. (838) 184)

Co^{2+}
Cat adrenal chromaffin cells; Cd^{2+}; K^+ channel; Depolarization (Sorimachi, M. (832) 23)

Coactivator
Transcription; Cholecystokinin; Hypothalamus; Thalamus; Hippocampus; Amygdala (Strömberg, H. (818) 510)

Cobalt
Carotid body; Glomus cell; Intracellular calcium; Membrane potential; Hypoxia; Calcium-selective microelectrode; Indo-1/AM (Zhang, X.Q. (818) 118)

Cobalt chloride
Local anesthetic; Tetracaine; Nucleus raphe magnus; Nucleus gigantocellularis pars α; Dorsolateral pontine tegmentum (Nuseir, K. (822) 1)

Cocaine
Neurotensin; Dopamine; Ibogaine; Methamphetamine; Drug abuse (Alburges, M.E. (818) 96)

Nicotine; Dizocipline; Ethanol; Sensitization; Dopamine transporter (Itzhak, Y. (818) 204)

Nucleus accumbens; Self-administration; Addiction; Electrophysiology; Rat (Peoples, L.L. (822) 231)

I.V. self-administration; Tissue plasminogen activator; Synaptic plasticity; Prefrontal cortex; Transgenic mice (Ripley, T.L. (826) 117)

Sensitization; Medial prefrontal cortex; 6-Hydroxydopamine; Microdialysis; Dopamine; Nucleus accumbens (Beyer, C.E. (833) 133)

MK-801; Sensitization; Locomotor activity (O'Neill, M.F. (834) 103)

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5-HT transporter; 5-HT reuptake; Irreversible antagonist; Turnover; Dopamine transporter (Vicentic, A. (841) 1)

Sensitization; Locomotor activity; Strain difference; Sex difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat; Spontaneous hypertensive rat (Cailhol, S. (842) 200)

Ibogaine; Dynorphin; Neurotensin; Striatum; Nucleus accumbens (Alburges, M.E. (847) 139)

Neuropeptide; Feeding (Adams, L.D. (848) 137)

Prenatal; Habenula; Neurotoxicity; Degeneration (Murphy, C.A. (851) 175)

Cocaine cytotoxicity
Tissue culture; GABAergic neuron; Calcium-binding protein; Parvalbumin; Calbindin; Drug of abuse; Immunocytochemistry; Ontogenesis (Glezer, I.I. (815) 389)

Cochlea
Transdifferentiation; β-galactoside; Lectin; Ototoxicity; Rat (Bartolomé, M.V. (822) 43)

Trimetazidine; Kainic acid; Neurotoxicity; Electrophysiology (Gil-Loyzaga, P. (826) 95)

Nitric oxide; iNOS; Soluble guanylyl cyclase; Inner ear dysfunction (Hess, A. (830) 113)

Outer hair cell; Voltage-dependent chloride channel; Single-cell RT-PCR (Kawasaki, E. (838) 166)

Auditory; Noise trauma; Synaptophysin immunoreactivity (Canlon, B. (850) 253)

Cochlear efferent system
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Cochlear nerve
Acoustic injury; Auditory function; Basilar papilla; Chick; Single-unit recordings; Rate–intensity functions; Recovery of function (Plontke, S.K.-R. (842) 262)

Cochlear nuclei
Plasticity; Habituation; Learning; Memory (Kandiel, A. (839) 292)

Coexistence
Arcuate nucleus; Feeding; Immunohistochemistry; In situ hybridization; Monosodium glutamate; Mouse; Paraventricular hypothalamic nucleus (Broberger, C. (848) 101)

Cofilin
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Cognition
Mouse; Inbred strain; Kainic acid; Excitotoxicity (Royle, S.J. (816) 337)

Olanzapine; FG 7142; Dizocilpine; Active avoidance paradigm; Elevated plus maze (Ninan, I. (830) 337)

BDNF; Hormone replacement; Estradiol; Hippocampus; Alzheimer's disease (Gibbs, R.B. (844) 20)

Neuropeptide Y; Hippocampus; Seizure (Redrobe, J.P. (848) 153)

Galanin; Acetylcholine; Serotonin; Spatial learning; Passive avoidance; Microdialysis (Ögren, S.O. (848) 174)

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Colchicine
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Goldfish; Retinal explant; Axonal transport; Tubulin; Vision (Dybowski, J.A. (842) 62)

Cold block
Orofacial; Swallow; Cortex (Narita, N. (824) 140)

Cold pain
Heat pain; Anterior cingulate cortex; Opioid; Mouse (Lee, D.E. (845) 117)

Cold stress
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Colocalization
c-Fos; NADPH-diaphorase; Nociception; Rat (Rodella, L. (834) 173)

Colorectal distension
Nucleus submedius; Periaqueductal gray; Visceral nociception; Spinal dorsal horn; Rat (Okada, K. (834) 112)

Combined tetrodotoxin reversible inactivation
Entorhinal cortex; Fimbria–fornix complex; Medial septal area; Memory consolidation; Rat's passive avoidance (Baldi, E. (821) 503)

Command cell
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Aging; Arginine-vasopressin; Vasopressin; Circadian rhythm; Suprachiasmatic nucleus (Van der Zee, E.A. (816) 572)

Communication box
Emotional stress; Corticotropin-releasing factor; Corticotropin-releasing factor receptor antagonist; Feeding behavior; Locomotor activity (Hotta, M. (823) 221)

Compartment
Reeler gene; Reelin; Striatum; Development; Rat (Nishikawa, S. (850) 244)

Competitive RT-PCR
MPTP; GDNF; GDNF mRNA expression (Inoue, T. (826) 306)

Hepatocyte growth factor; c-Met; Retina; Development; Immunohistochemistry (Sun, W. (851) 46)

Complement
C1-esterase inhibitor; Cerebral blood flow; Cortical vein occlusion; Rat (Heimann, A. (838) 210)

Complete Freund's adjuvant
Astrocyte; Extravasation; Glial fibrillary acidic protein; IgG; Mac-1; Microglia (Rabchevsky, A.G. (832) 84)

Complex IV
N-Acetylcysteine; Aging; Thiol; Cytochrome *c* oxidase; Mitochondria (Martínez Banaclocha, M. (842) 249)

Compulsive behavior
Obsessive compulsive disorder; Transgenic mouse; Corticostriatal; Glutamate; Stereotypy (Campbell, K.M. (833) 216)

S-COMT
MB-COMT; Inhibitor; Brain (Vieira-Coelho, M.A. (821) 69)

Concanavalin A
Xenopus oocyte; Pharmacology; Glutamate; Electrophysiology; Cyclothiazide (Nijholt, I. (821) 374)

Concentration
Opioid receptor; G protein; Phospholipase C; Cytosolic Ca^{2+}; Manganese entry (Song, S.-L. (818) 316)

Conditioned freezing response
Traumatic brain injury; Inducible transcription factor; Rat; Amygdala; Hippocampus (Abrous, D.N. (826) 181)

Conditioning lesion
Axotomy; Peripheral nerve graft; Brain-derived neurotrophic factor; Neurotrophin-3; Nerve growth factor (Oudega, M. (818) 431)

Confocal laser scanning microscopy
Hypothalamus; Vasopressin; Vasoactive intestinal peptide; Circadian rhythm immunofluorescence (Romijn, H.J. (832) 47)

Caribbean ciguatoxin; D-Mannitol; Node of Ranvier of myelinated nerve fibre; Action potential; Axonal volume (Mattei, C. (847) 50)

Confocal microscopy
Spinal cord; Motoneuron; Acetylcholine; Muscarinic receptor; Immunocytochemistry (Welton, J. (817) 215)

Magnesium; Fura-2; Mag-Fura-2; Magnesium Green; Fura Red; Dorsal root ganglion; Depolarization (Gotoh, H. (828) 163)

Dorsal root ganglion; Immunohistochemistry; Fluorescence (Bergman, E. (832) 63)

Congenital hypothyroidism
Behavior; Thyroid hormone; Learning (MacNabb, C. (847) 231)

Conjunctiva
Cornea; Epithelium; Wound healing; DNA synthesis; Cell migration; Limbus (Zagon, I.S. (822) 149)

Cornea; DNA synthesis; Epithelium; Wound healing; Cell migration; Limbus (Zagon, I.S. (839) 243)

Connection
Cerebral cortex; Striatum; Thalamus; Medial agranular (Reep, R.L. (841) 43)

Connective tissue growth factor
Brain; Spinal cord; Astrocyte; Immunohistochemistry (Kondo, Y. (834) 146)

Connexin
Arachidonic acid; Gap junction; Dye coupling; Cyclooxygenase; Melatonin (Martínez, A.D. (816) 411)

Gap junction; Rat carotid body; cAMP; Cell–cell communication; Primary culture (Abudara, V. (849) 25)

Constant darkness
Circadian clock; Immunohistochemistry; Protein expression; Glutamate receptor (Chambille, I. (833) 27)

Paradoxical sleep; Slow-wave sleep; Cerebral temperature; Constant light; Prolactin; Melatonin (Lobo, L.L. (835) 282)

Constant light
Paradoxical sleep; Slow-wave sleep; Cerebral temperature; Constant darkness; Prolactin; Melatonin (Lobo, L.L. (835) 282)

Contraction
Kinaesthesia; Muscle spindle; Fusimotor; Stretch; Sensation (Wise, A.K. (821) 87)

Contralateral effect
Ventral tegmental area; Stimulation-induced locomotor response; Facilitation; Bicuculline; Phaclofen; Muscimol (Trojniar, W. (842) 419)

Control of breathing
Hypoxia; Neonate; Piglets (St.-John, W.M. (819) 147)

Respiration; Excitatory amino acid; Ionotropic glutamate receptor; Metabotropic glutamate receptor; Lamprey (Bongianni, F. (826) 298)

Converting enzyme inhibitor (CEI)
Angiotensin (ANG) I; Angiotensin (ANG) II; Angiotensin-converting enzyme (ACE); Circumventricular organ; Drinking; Pressor response; Subfornical organ (Robinson, M.M. (842) 55)

Convulsion
Zinc; Epilepsy; El mouse; Seizure (Takeda, A. (828) 174)

Nitric oxide; GABA; GABA-T; GAD; Glutamic acid (Jayakumar, A.R. (837) 229)

Coping
Benzodiazepine receptor; Avoidance learning; Corticosterone; Unconditioned stimulus preexposure effect; Rat (Lehmann, J. (851) 141)

Copper
Metals; Amyloid precursor protein; Oxidative stress; Knockout (White, A.R. (842) 439)

Copulatory behavior
Receptor; Serotonin; Penile reflex; Buspirone; Gepirone; DPAT; BMY-7378 (Rehman, J. (821) 414)

Cornea
Epithelium; Wound healing; DNA synthesis; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (822) 149)

DNA synthesis; Epithelium; Wound healing; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (839) 243)

Corpus callosum
Hippocampal commissure; Anterior commissure; Cerebral cortex; Allometry; Morphometry (Bishop, K.M. (815) 358)

Knockout; ES cell; 129 mouse; C57 mouse; Spatial learning; Non-spatial learning (Balogh, S.A. (836) 38)

Corpus cavernosum
Nitroxidergic nerve; Denervation; Histochemistry; Nitric oxide (NO) synthase (Ayajiki, K. (825) 14)

Correlation dimension
Hippocampal slice; Epilepsy models; Prediction; Guinea pigs (Widman, G. (836) 156)

Cortex
Oxidative stress; Antibodies; Nitric oxide; Striatum; Thalamus (Maybodi, L. (817) 199)

Olfaction; Smell; Odor; Functional magnetic resonance imaging; Brain mapping; Gender effect (Yousem, D.M. (818) 480)

Orofacial; Cold block; Swallow (Narita, N. (824) 140)

rTMS; Receptor autoradiography; NMDA receptors; Serotonin uptake sites; 5-HT_{1A} receptors; Hippocampus; Amygdala; Depression (Kole, M.H.P. (826) 309)

5-HT; Serotonin; Human; 5-HT_{2A}; 5-HT_{1A} (Newberry, N.R. (833) 93)

Acetylcholine; Monkey; Saporin; Discrimination learning; Hippocampus (Ridley, R.M. (836) 120)

Cortical association fiber
Potentiation; Late component; Olfactory cortex; Piriform cortex; Olfactory bulb; Lateral olfactory tract; Rat (Stripling, J.S. (841) 27)

Cortical astrocyte
CNTF; NGF; Induction; Interaction; $p75^{NTR}$; Rat (Semkova, I. (838) 184)

Cortical blood flow
Cardiovascular response; Descending 5-HT projection; Receptor autoradiography; Retrograde axonal labeling (Underwood, M.D. (824) 45)

Cortical circuitry
Retrohippocampal region; Epilepsy (Stewart, M. (830) 274)

Retrohippocampal region; Epilepsy (Funahashi, M. (849) 139)

Cortical excitability
Transcranial magnetic stimulation; Benzodiazepine; GABA; MEP; Drug abuse; Idiopathic stupor (Palmieri, M.G. (815) 192)

Cortical impact
Apoptosis; DNA fragmentation; DNA repair; Temporal profile; Rat; Hippocampus (Kaya, S.S. (818) 23)

Cortical lesion
Cerebral ischemia; Plasticity; GABA receptor (Neumann-Haefelin, T. (816) 234)

Cortical neuron
Ischemic preconditioning; Oxygen–glucose deprivation; Calcium; Protein kinase C; Mitogen-activated protein kinase (Tauskela, J.S. (827) 143)

Alzheimer's disease; Beta-amyloid; Apoptosis; Caspase (Harada, J. (842) 311)

Cortical short-term plasticity
Functional deafferentation; Auditory system; Magnetoencephalography (Pantev, C. (842) 192)

Cortical silent period
Paired cortical stimulation; Intracortical inhibition; Pyramidal tract neuron (Shimizu, T. (834) 74)

Cortical spreading depression
Hippocampus; Hyperthermia; Paraventricular nucleus; Unit activity; Rat (Monda, M. (824) 119)

Focal cerebral ischemia; Reperfusion; Ischemic depolarization; Magnetic resonance imaging; Rat brain (Dijkhuizen, R.M. (840) 194)

Cortical vein occlusion
Complement; C1-esterase inhibitor; Cerebral blood flow; Rat (Heimann, A. (838) 210)

Corticocollicular pathway
Electron microscopy; Immunocytochemistry; Retinocollicular pathway; Calcium binding protein; X, Y, W cells (Mize, R.R. (843) 25)

Corticofugal facilitation and inhibition
Auditory cortex; Bat; Inferior colliculus (Jen, P.H.-S. (841) 184)

Corticospinal
Topographical; Axon labelling; Fluororuby (Jeffery, N.D. (833) 315)

Corticosteroid
GIRK; Corticosterone; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Corticosteroid receptor
Corticosterone; Western blotting; Adrenalectomy; Rat (Deak, T. (847) 211)

Corticosterone
Rapid effect; Rostral ventrolateral medulla; Extracellular recording; Microiontophoresis (Rong, W. (815) 51)

Interleukin-6; Lipopolysaccharide; Interleukin-1; ACTH; Tryptophan; Serotonin (Wang, J. (815) 337)

Lipopolysaccharide; Norepinephrine; Dopamine; Serotonin; ACTH; Anxiety; Exploration (Lacosta, S. (818) 291)

Psychological stress; Memory; Metyrapone; Serotonin; Rat (Liu, L. (821) 134)

Arginine–vasopressin; Stress; Aging; Rat; Brain; ACTH; Corticotropin-releasing factor (Mulchahey, J.J. (822) 243)

Spatial learning; Aging; Fischer-344 × Brown Norway rat; Hippocampus; Memory (Hebda-Bauer, E.K. (827) 93)

GRP; ACTH; Hypothalamus–pituitary–adrenal axis; GRP antagonist; Extracelullar calcium (Garrido, M.M. (828) 20)

Chronic corticosterone; Neural cell adhesion molecule; Neural plasticity; Frontal cortex; Hypothalamus (Sandi, C. (828) 127)

Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

Formalin test; Muscarinic receptor; Analgesia; β-Endorphin; Behavior (Capone, F. (830) 292)

Stress; Dopamine; Norepinephrine; Medial prefrontal cortex; Striatum; Nucleus accumbens (Lindley, S.E. (832) 152)

Estradiol; Progesterone; Threshold; Kindling (Edwards, H.E. (838) 136)

Corticosteroid; GIRK; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Stress; Predator; Norepinephrine; Dopamine; Serotonin; Limbic excitability; Kindling (McIntyre, D.C. (840) 65)

CRF; CRF-knockout; Stress; Behavior; Interleukin-1 (Dunn, A.J. (845) 14)

Corticosteroid receptor; Western blotting; Adrenalectomy; Rat (Deak, T. (847) 211)

Benzodiazepine receptor; Avoidance learning; Coping; Unconditioned stimulus preexposure effect; Rat (Lehmann, J. (851) 141)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Fenfluramine; ACTH; Paraventricular nucleus; Supraoptic nucleus (Mikkelsen, J.D. (851) 247)

Corticostriatal
Compulsive behavior; Obsessive compulsive disorder; Transgenic mouse; Glutamate; Stereotypy (Campbell, K.M. (833) 216)

Corticotropin-releasing factor
Locus coeruleus; Glucocorticoid receptor; Norepinephrine; Barrington's nucleus; Central nucleus of the amygdala; Bed nucleus of the stria terminalis (Lechner, S.M. (816) 17)

Angiotensin II type 2 receptor; Anxiogenic behavior; Mouse; α_1-Adrenergic receptor; Amygdala (Okuyama, S. (821) 150)

Paraventricular nucleus; Nitric oxide; NO synthase (Harada, S. (821) 322)

Stress; Aging; Rat; Brain; Messenger RNA (Kasckow, J.W. (822) 228)

Arginine–vasopressin; Stress; Aging; Rat; Brain; Corticosterone; ACTH (Mulchahey, J.J. (822) 243)

Emotional stress; Communication box; Corticotropin-releasing factor receptor antagonist; Feeding behavior; Locomotor activity (Hotta, M. (823) 221)

Neuropeptide Y; Noda epileptic rat; Radioimmunoassay; In situ hybridization (Jinde, S. (833) 286)

Oxytocin; Paraventricular nucleus; Supraoptic nucleus; Vasopressin; Ventrolateral medulla catecholamine cell (Buller, K.M. (834) 42)

Social stress; Aggression; Agonistic behavior (Jasnow, A.M. (846) 122)

Urocortin; Stress; Anxiety; Drug addiction (Koob, G.F. (848) 141)

Lateral lemniscal nuclei; Dynorphin; Glutamate decarboxylase; Retrograde fluorescent labeling; Acoustic stimulation (Ueyama, T. (849) 220)

Corticotropin-releasing factor receptor antagonist
Emotional stress; Communication box; Corticotropin-releasing factor; Feeding behavior; Locomotor activity (Hotta, M. (823) 221)

Corticotropin releasing factor
Substance P; Pressor response; Nucleus amygdaloideus centralis; Nucleus ventromedialis; Emotion; Stress (Wu, J.-S. (842) 392)

Corticotropin-releasing hormone
Social stress; Nitric oxide; Vasopressin; ACTH/Corticosterone (Bugajski, J. (817) 220)

Glucocorticoid-receptor deficiency; Median eminence; Vasopressin; Neurophysin (Kretz, O. (818) 488)

Fasting; Leptin; Nitric oxide synthase; Thyrotropin-releasing hormone; In situ hybridization histochemistry (Isse, T. (846) 229)

Amygdala; Bed nucleus of the stria terminalis; Paraventricular nucleus; Psychological stress (Makino, S. (850) 136)

Cortisol
Circadian rhythm; Entrainment; Photoperiod; Melatonin; Human (Vondrašová-Jelínková, D. (816) 249)

Co^{2+}-staining
Barrel cortex; Ventrobasal thalamus; AMPA/KAIN receptor; Intracellular microelectrophysiology (Világi, I. (844) 118)

Cotransmitter
Central pattern generators; Proctolin; Crustacean cardioactive peptide; Lobster (Marder, E. (848) 35)

CP 93,129
[^{35}S]GTPγS binding; 5-HT_{1B} receptors; Rat (Mize, A.L. (836) 229)

CPP
Newborn; Brain; NMDA receptor; Free radical; Lipid peroxidation (Fritz, K.I. (816) 438)

[^{11}C]Raclopride
Dopamine; Dopamine D_2 receptor; Positron emission tomography; Microdialysis; Monkey brain (Tsukada, H. (841) 160)

Craniofacial
Trigeminal; Muscle nociception; Hypertonic saline; Vi (Ro, J.Y. (842) 166)

Crayfish
Stretch receptor; Action potential; Sodium current; Sodium channel distribution (Lin, J.-H. (830) 353)

Facilitation; Neuromuscular junction; Synapse (Crider, M.E. (842) 324)

Creatine
Phosphocreatine; Hypoxia; Ischemia; Anoxic depolarization; Protection; Neuronal damage (Balestrino, M. (816) 124)

Creatine phosphate
Phosphorus-31 magnetic resonance spectroscopy; Brain energy metabolism; Intracellular pH; Membrane phospholipid; Photic stimulation (Murashita, J. (818) 72)

CREB
Cerebral ischemia; Phosphorylation; Signal transduction (Tanaka, K. (818) 520)

Acetylcholine; Calcium; Norepinephrine; Vasoactive intestinal peptide; Ontogeny (Schomerus, C. (833) 39)

TRH; Glucocorticoid; Hypothalamus; Phorbol ester; *N*-Ethyl-maleimide; AP-1 (Luo, L.-G. (841) 189)

Ca(2 +)-calmodulin-dependent protein kinase; Nitric-oxide synthase; Signal transduction; Lipopolysaccharide; Phosphorylation; NF-kappa B (Mirzoeva, S. (844) 126)

CRF
CRF-knockout; Stress; Behavior; Interleukin-1; Corticosterone (Dunn, A.J. (845) 14)

CRF-knockout
CRF; Stress; Behavior; Interleukin-1; Corticosterone (Dunn, A.J. (845) 14)

CRF receptor type 1
Null mutant mice; Anxiety; Memory (Contarino, A. (835) 1)

CRH-41
Hippocampus; Hypothalamus; Paraventricular nucleus; Neural stimulus; Glucocorticoid receptor antagonist; Negative feedback (Feldman, S. (821) 33)

Cross-linking
Transglutaminase; Neurofibrillary tangle; Paired helical filament; Polymerization (Norlund, M.A. (851) 154)

Cross-modal and delayed response paradigm
Event-related potential; Selective attention; Modality specific processing; Supramodal brain system; Negativity difference; N1 (Luo, Y.-j. (842) 30)

Cross tolerance
Heat shock protein; Hyperthermia; Hypoxic ischemia; Neonate (Wada, T. (847) 299)

Crustacean cardioactive peptide
Central pattern generators; Proctolin; Cotransmitter; Lobster (Marder, E. (848) 35)

Cryptochrome
Suprachiasmatic nucleus; Circadian rhythm; Extraocular light perception; Photic entrainment; Visual system (Meijer, J.H. (831) 337)

CSF
Alzheimer's disease; Diagnosis (Hampel, H. (823) 104)

CTAP
c-Fos; Extended amygdala; Opioid; Nor-binaltorphimine (Carr, K.D. (822) 34)

Culture
Drosophila; Neuroblast; *Trol*; Ecdysone (Datta, S. (818) 77)

Purkinje neuron; Cerebellum; Alcohol; AMPA; Intracellular calcium (Netzeband, J.G. (826) 270)

Tyrosine kinase inhibitor; Astrocyte; Stellation (Abe, K. (837) 306)

ATP; Rat cortical astrocyte; Stellation; Purinoceptor; Development (Abe, K. (850) 150)

Cultured cells
Nociceptin/orphanin FQ; Enzyme biotransformation; Morphine treatment; Mass spectrometry (Vlaskovska, M. (818) 212)

Cultured neuron
Alzheimer's disease; Amyloid beta peptide; Na^+/K^+ ATPase; Zinc (Lovell, M.A. (823) 88)

Current density
Calcium current; Entorhinal cortex; Rat; Patch-clamp; Whole cell (Bruehl, C. (816) 554)

Curve-shift paradigm
Intracranial self-stimulation (ICSS); Memantine; MK-801 (dizocilpine); Reward; Lateral hypothalamus; Median forebrain bundle; NMDA receptor (Tzschentke, T.M. (845) 192)

Cuttlefish
Nitric oxide; cGMP; cAMP; Hair cell; Vestibular (Tu, Y. (845) 35)

Cu,Zn-superoxide dismutase
Dietary selenium; Methamphetamine-induced neurotoxicity; Dopamine; Ratio of reduced glutathione/oxidized glutathione; Glutathione peroxidase; Malondialdehyde; Oxidative stress (Kim, H.-C. (851) 76)

Cyanide
Drosophila; Rat; Hypoxia; Excitability (Gu, X.Q. (845) 6)

Arterial chemoreceptor; Carotid body; Hypoxia; Petrosal ganglion; Sensory ganglion (Alcayaga, J. (845) 28)

Cyclic AMP
Suprachiasmatic nucleus; Circadian rhythm; Melatonin; Serotonin; Neuropeptide Y; Brain slice (Prosser, R.A. (818) 408)

Adenylyl cyclase isoform; FlCRhR fluorescence; Myenteric ganglia; Calbindin-D_{28} immunoreactive myenteric neuron; AH/Type 2 neuron; Enteric glia (Liu, C.Y. (826) 253)

$PACAP_{38}$; $PACAP_{27}$; VIP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Chicken; Pineal gland; Melatonin; Hydroxyindole-*O*-methyltransferase; Circadian (Grechez-Cassiau, A. (835) 97)

Adenylate cyclase; Circadian; Protein kinase A; Rhythm; Suprachiasmatic (Lee, J.M. (835) 350)

Radial glia; Chick retina; Neurotransmitter uptake (Gadea, A. (838) 200)

Cyclic AMP response element binding protein
Dementia of the Alzheimer type; Postmortem human brain; Immunoblotting; Cyclic AMP signal transduction system (Yamamoto-Sasaki, M. (824) 300)

Cyclic AMP signal transduction system
Cyclic AMP response element binding protein; Dementia of the Alzheimer type; Postmortem human brain; Immunoblotting (Yamamoto-Sasaki, M. (824) 300)

Cyclic GMP
Ventrobasal thalamus; Lateral geniculate nucleus; Nitric oxide; Sensory system; Guanylate cyclase (Shaw, P.J. (833) 272)

Cyclic nucleotide
Newborn; Cerebral circulation; Nitric oxide (Armstead, W.M. (816) 158)

Newborn; Cerebral circulation (Armstead, W.M. (825) 68)

Newborn; Cerebral circulation; Opioid; Nitric oxide (Armstead, W.M. (835) 315)

Cyclic nucleotide-gated channel
cGMP; cAMP; Thermosensation; Chemosensation; *Caenorhabditis elegans* (Komatsu, H. (821) 160)

Cyclin-dependent kinase
Retinoblastoma protein; Embryonal carcinoma cell; Neuronal differentiation; Site-specific anti-phospho-pRb antibody (Watanabe, Y. (842) 342)

Cyclohexyladenosine
Population spike; fEPSP; CA1; 8-cyclopentyltheophylline (Fowler, J.C. (815) 414)

EPSP; Antidromic; Afterpotentials; CA1; 8-Cyclopentyltheophylline (Fowler, J.C. (837) 309)

Cyclooxygenase
Arachidonic acid; Gap junction; Connexin; Dye coupling; Melatonin (Martínez, A.D. (816) 411)

Kainic acid; c-Jun; Phosphorylation; Neuronal apoptosis; Oxidative stress (Matsuoka, Y. (836) 213)

Cyclooxygenase-2 inhibitor
Kainic acid-induced seizure; Hippocampus; TUNEL-positive neuronal death; Prostaglandin (Baik, E.J. (843) 118)

8-cyclopentyltheophylline
Population spike; fEPSP; CA1; Cyclohexyladenosine (Fowler, J.C. (815) 414)

8-Cyclopentyltheophylline
EPSP; Antidromic; Afterpotentials; CA1; Cyclohexyladenosine (Fowler, J.C. (837) 309)

Cyclopiazonic acid
Human microglia; Ca^{2+} fluorescence microscopy; Platelet-activating factor; SERCA; Store-operated Ca^{2+} entry (Wang, X. (842) 159)

Cyclosporin A
FK506; Nitric oxide; iNOS; C6; Glioma; Rat (Trajković, V. (816) 92)

Focal ischemia; Hyperglycemia; Middle cerebral artery occlusion; FK506 (Kuroda, S. (835) 148)

Cytochrome *c*; Delayed neuronal cell death; Gerbil (Nakatsuka, H. (849) 216)

Cyclothiazide
Xenopus oocyte; Pharmacology; Glutamate; Electrophysiology; Concanavalin A (Nijholt, I. (821) 374)

CYP2D
Basal ganglia; Brain; Immunohistochemistry; P450; Parkinson's disease (Riedl, A.G. (822) 175)

Cyproheptadine
c-Fos expression; Formalin test; Spinal dorsal horn; Descending inhibition; Phentolamine; Naloxone; Intrathecal (Liu, R.-J. (830) 183)

Cysteine sulfinate
γ-Glutamyl-containing peptide; Acivicin; Anoxia/aglycemia; Glutathione metabolism (Li, X. (815) 81)

Cytidine
Choline; Arachidonic acid; Phospholipid (Knapp, S. (822) 52)

Cytochrome *c*
Apoptosis; Mitochondria; Vestibular hair cell; Aminoglycoside (Nakagawa, T. (847) 357)

Cyclosporin A; Delayed neuronal cell death; Gerbil (Nakatsuka, H. (849) 216)

Cytochrome c oxidase
Mitochondria; Cerebral ischemia; Reperfusion; Hypothermia; Respiratory chain (Canevari, L. (817) 241)

Cytochrome *c* oxidase
N-Acetylcysteine; Aging; Thiol; Mitochondria; Complex IV (Martínez Banaclocha, M. (842) 249)

Cytochrome *P*450
Inflammation; LPS; Astrocyte (Nicholson, T.E. (827) 12)

Cytochrome P450
Central nervous system inflammation; Lipopolysaccharide (Renton, K.W. (842) 139)

Cytokine
Brain; Development; Macrophage migration inhibitory factor; Immunohistochemistry; In situ hybridization (Suzuki, T. (816) 457)

Monocyte/macrophage; Neuroimmunology; Interleukin-1β; Tumor necrosis factor-α; Interleukin-10 (Woiciechowsky, C. (816) 563)

Mouse; Cerebral ischemia; E-selectin (Hill, J.K. (820) 45)

Diagnostic marker; ELISA; Interleukin-6; Microglia; Tumour necrosis factor-α (Garlind, A. (826) 112)

Mycoplasma fermentans; Brain; Interleukin-1; TNFα; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

Glia; Hypothalamus; Sleep; Immune response; Infections of the nervous system; African sleeping sickness (Chianella, S. (832) 54)

Focal cerebral ischemia; TGF-β1; GFAP; c-*fos*; hsp70; MK-801; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

Microglia; Phosphodiesterase inhibitor; Multiple sclerosis; Astrocyte; TNF (Suzumura, A. (837) 203)

TNF-α; Transgenic mice; Learning; Inflammation; Behavior; Demyelination; CNS inflammation (Aloe, L. (840) 125)

Nervous system; Pacemaker; Circadian rhythm; Development (Lundkvist, G.B. (849) 231)

Microglia; Multinucleated giant cell; IL-13; IL-4 (Suzumura, A. (849) 239)

Excitatory amino acid; Immunohistochemistry; Neuroprotection; Excitotoxicity (Liu, X.-H. (851) 94)

Cytokine response element
Opioid receptor; NF-IL6 binding site (Im, H.-J. (829) 174)

Cytokines
Mechanical allodynia; Inflammation; Glia; Formalin; Zymosan (Sweitzer, S.M. (829) 209)

TNF-α; IL-1β; Ischemia; Reperfusion; Nerve (Mitsui, Y. (844) 192)

Cytoplasmic puncta
Apolipoprotein E; Receptor; Alzheimer's disease (Motoi, Y. (833) 209)

Cytoskeletal assembly
Spectrin; Protein synthesis; Protein turnover; Hippocampal neuron (Sangerman, J. (849) 128)

Cytoskeletal protein
Dendritic remodeling; Fear conditioning; Immunohistochemistry; Immunoblot; Rat (Woolf, N.J. (821) 241)

Cytoskeleton
MAP1B; Peripheral nerve; Plasticity; Regeneration; Motor neuron (Ramón-Cueto, A. (815) 213)

Microtubule; Protein phosphorylation; Sciatic nerve; Axotomy; Glial cell (Ma, D. (823) 141)

Oxytocin; Vasopressin; Immunocytochemistry; Microtubule; Plasticity; Shape conversion; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

Cytosolic Ca^{2+}
Opioid receptor; G protein; Phospholipase C; Concentration; Manganese entry (Song, S.-L. (818) 316)

Fura-2AM; Na^+/K^+ exchanger antagonist; L-type voltage-gated Ca^{2+} channel; D600; Ca^{2+}-free; Na^+-free (Sato, M. (828) 193)

Cytosolic phospholipase A_2
Hydrogen oxide; Arachidonic acid; Apoptosis; EGF; GH3 cells (Yasuda, Y. (850) 197)

Cytotoxicity
Serum deprivation; Dexamethasone; Necrosis; Rat C6 glioma cell; Glucocorticoid receptor (Morita, K. (816) 309)

Spinal cord; Sacral; Motoneuron; NOS1 (Pullen, A.H. (836) 173)

D

D600
Fura-2AM; Cytosolic Ca^{2+}; Na^+/K^+ exchanger antagonist; L-type voltage-gated Ca^{2+} channel; Ca^{2+}-free; Na^+-free (Sato, M. (828) 193)

DAMGO
Neuropeptide Y; Paraventricular nucleus; Sucrose (Giraudo, S.Q. (834) 160)

D_3 and D_2 dopamine receptor
Alkylation; Autoradiography; EEDQ; NIPS (Zhang, K. (847) 32)

Dark-rearing
Tetanic stimulation; Brain slice; Plasticity; Field potential (Atapour, N. (851) 148)

DBI fragment
PBR; Wallerian degeneration; Pregnenolone biosynthesis; Remyelination (Lacor, P. (815) 70)

D_1 dopamine antagonist
Medial preoptic area; Amygdala; Sexual experience; Male sexual behavior; Rat; Fos (Lumley, L.A. (829) 55)

D2 dopamine receptor
Fos; Striatum; NMDA receptor (Pollack, A.E. (818) 543)

NMDA glutamate receptor; Priming; c-*Fos*; Apomorphine (Pollack, A.E. (827) 160)

Deafferentation
Plasticity; Nitric oxide; Somatosensory system; Cerebral glucose utilization (Won Sohn, N. (816) 396)

Dorsal rhizotomy; Autoradiography; Superficial laminae; Anandamide (Hohmann, A.G. (822) 17)

Area 5; Trained monkey; Command cell; Reorganization of spontaneous activity; Reaction time; Neural latency response normalization (Bioulac, B. (835) 266)

Decay time constant
Glutamate receptor channel; Neuromodulation; Patch clamp; Single channel recording; Miniature synaptic current (Nishikawa, K.-i. (837) 67)

Deep layers of superior colliculus
Audiogenic seizure; Seizure network; Startle; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (815) 250)

Deep nuclei
Cerebellum; Learning; Plasticity; Inhibition (Freeman Jr., J.H. (833) 225)

Defense behavior
Anxiety; Diazepam; Orphanin FQ; Stress (Griebel, G. (836) 221)

Defensive burying test
Neurosteroid; Anxiolytic; Hippocampus; Lateral septum; Elevated plus-maze (Bitran, D. (850) 217)

Deferoxamine
Reactive oxygen species; 21-Aminosteroid; Stobadine; Trolox; α-Tocopherol; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Deferoxamine mesylate
Reactive oxygen species; Noise-induced hearing loss; Mannitol; Nitric oxide (Yamasoba, T. (815) 317)

Degenerating cell
Cathepsin B; Cathepsin D; Aging; Cerebral cortex; Ultrastructural location (Jung, H. (844) 43)

Degeneration
Hemispherectomy; Subcortical; Stereology; Striatum; Saccadic system (Théoret, H. (835) 354)

Prenatal; Cocaine; Habenula; Neurotoxicity (Murphy, C.A. (851) 175)

Deglutition–mastication interaction
Chewing orbital cortex; Swallowing neuron; Chewing neuron; Medulla oblongata (Lamkadem, M. (832) 97)

Degu
Suprachiasmatic nucleus; Retina; Illumination; Electrophysiology; Rat; Circadian; Entrainment (Jiao, Y.-Y. (817) 93)

Dehydration
Gerbil; Rat; Parvocellular paraventricular nucleus; Substance P; Immunohistochemistry (Kang, T.-C. (820) 101)

Adrenergic; Imidazoline; Sodium appetite; Water intake (Sugawara, A.M. (839) 227)

Dehydroepiandrosterone sulfate
Neurosteroid; $GABA_A$ receptor; Pregnanolone; Allopregnanolone (Park-Chung, M. (830) 72)

Delay
Reward; Bird; Forebrain; NCL (Kalt, T. (839) 263)

Delayed neuronal cell death
Cytochrome *c*; Cyclosporin A; Gerbil (Nakatsuka, H. (849) 216)

Delayed neuronal death
Gerbil; DNA fragmentation; 2-Deoxy-D-glucose; Hyperthermia (Hara, A. (840) 167)

Deltamethrin
Neurotoxicity; Nitric oxide synthase; Poly(ADP-ribose) polymerase (Wu, A. (850) 249)

Dementia
AIDS; Sleep; Visual evoked potential; Auditory evoked potential (Prospéro-García, O. (836) 203)

Dementia of the Alzheimer type
Cyclic AMP response element binding protein; Postmortem human brain; Immunoblotting; Cyclic AMP signal transduction system (Yamamoto-Sasaki, M. (824) 300)

Demyelination
Globoid cell leukodystrophy; Forskolin; Galactocerebroside; Proliferation; Differentiation (Yamada, H. (816) 390)

Myelin; Osteopontin; Chick; Immunohistochemistry; Western blot (Kang, T.-C. (818) 527)

Oligodendrocyte; Remyelination; Jimpy ice; Galactocerebroside; Sulfatide (Cammer, W. (837) 188)

Black-Gold; Myelin; Kainic acid; 3-Nitropropionic acid; Isoniazid; Domoic acid (Schmued, L. (837) 289)

TNF-α; Transgenic mice; Learning; Inflammation; Cytokine; Behavior; CNS inflammation (Aloe, L. (840) 125)

Dendrite
Calcium; Climbing fiber; Neuromodulator; Purkinje cell (Pisani, A. (831) 113)

Dendritic arborization
(−) Deprenyl; Monkey prefrontal cortex; Layer III pyramidal neuron; Golgi staining; Neural plasticity (Shankaranarayana Rao, B.S. (821) 218)

Dendritic remodeling
Fear conditioning; Immunohistochemistry; Cytoskeletal protein; Immunoblot; Rat (Woolf, N.J. (821) 241)

Denervation
Corpus cavernosum; Nitroxidergic nerve; Histochemistry; Nitric oxide (NO) synthase (Ayajiki, K. (825) 14)

Dental pulp
S-100β; Axon; Schwann cell; Immunohistochemistry (Atsumi, Y. (818) 515)

Dentate granule cell
Hippocampus; Inhibition; Modulation; Vigilance state; Plasticity (Bronzino, J.D. (849) 45)

Dentate gyrus
Organotypic hippocampal culture; Low magnesium; Seizure (Gutiérrez, R. (815) 294)

Hippocampal cultured slice; Mossy fiber; Recurrent excitation (Gutiérrez, R. (815) 304)

Developing brain; Hippocampus; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S100β protein (Janeczko, K. (816) 628)

Anesthetic; GABA; Hippocampus; Olfactory cortex; Perforant path; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Electrical kindling; Extracellular field potential; Group III mGluR; L(+)-2-Amino-4-phosphonobutyric acid (Friedl, M. (821) 117)

Isolation rearing; Rat; Locomotor activity; Prepulse inhibition; Startle; Synaptophysin; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Sexual dimorphism; Hippocampus; Androgen; Androgen insensitivity; *tfm* (Tabibnia, G. (827) 41)

Long-term potentiation; Neuropeptide Y; c-Jun-activated protein kinase; Glutamate release (Whittaker, E. (827) 229)

Neurogenesis; Transient forebrain ischemia; 5-Bromodeoxyuridine (Takagi, Y. (831) 283)

Trangenic; Mouse; Strain; Electrophysiology (Bampton, E.T.W. (841) 123)

Hippocampus; Hyperactivity; Theta; Paired-pulse inhibition; GABA; Exocytosis (Steffensen, S.C. (847) 186)

Electron microscopy; Ultrastructure; Hippocampus; Interneuron (Drake, C.T. (849) 203)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; In vivo (Pavlides, C. (851) 204)

Saffron; Acetaldehyde; Long-term potentiation; Hippocampus (Abe, K. (851) 287)

2-Deoxy-D-glucose
Arginine vasopressin; Paraventricular nucleus; Supraoptic nucleus; Fos; Glucoprivation (Briski, K.P. (839) 341)

Delayed neuronal death; Gerbil; DNA fragmentation; Hyperthermia (Hara, A. (840) 167)

2-Deoxyglucose
Cerebral glucose metabolism; Status epilepticus; Perforant path stimulation; Rat (Pereira de Vasconcelos, A. (838) 110)

2-Deoxyglucose autoradiography
Parkinson's disease; 6-OHDA; Pedunculopontine nucleus; Cerebral metabolism (Carlson, J.D. (828) 12)

5-HT reuptake blockade; Citalopram; Iodoantipyrine autoradiography (McBean, D.E. (847) 80)

Depolarization
Hippocampal slice; Glutamate; Transporter; Immature brain (Katsumori, H. (819) 160)

Magnesium; Fura-2; Mag-Fura-2; Magnesium Green; Fura Red; Dorsal root ganglion; Confocal microscopy (Gotoh, H. (828) 163)

Cat adrenal chromaffin cells; Cd^{2+}; Co^{2+}; K^+ channel (Sorimachi, M. (832) 23)

Depotentiation
Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

(−) Deprenyl
Monkey prefrontal cortex; Layer III pyramidal neuron; Dendritic arborization; Golgi staining; Neural plasticity (Shankaranarayana Rao, B.S. (821) 218)

L-Deprenyl
Neurite outgrowth; Neurotrophic; Brain derived neurotrophic factor; Parkinson's disease (Kontkanen, O. (829) 190)

Depression
Antidepressant; Monoamine transporter; Serotonin uptake; Norepinephrine uptake; Glia; Astrocyte (Neary, J.T. (816) 358)

Benzodiazepine withdrawal; Escape deficit; Anhedonia; Antidepressant (Lacerra, C. (819) 40)

Immunohistochemistry; Serotonin; Raphe nuclei; Fos; Stress; Anxiety (Grahn, R.E. (826) 35)

rTMS; Receptor autoradiography; NMDA receptors; Serotonin uptake sites; 5-HT_{1A} receptors; Hippocampus; Cortex; Amygdala (Kole, M.H.P. (826) 309)

Monoamine oxidase A; Human; Locus coeruleus; Raphe; Postmortem (Ordway, G.A. (847) 71)

Depressor response
Bradycardia; Pressor response; Tachycardia (Bhatnagar, T. (822) 192)

Deprivation
Intracerebroventricular; Substance P; Food intake; Alteration (Dib, B. (830) 38)

Descending 5-HT projection
Cortical blood flow; Cardiovascular response; Receptor autoradiography; Retrograde axonal labeling (Underwood, M.D. (824) 45)

Descending inhibition
c-Fos expression; Formalin test; Spinal dorsal horn; Phentolamine; Cyproheptadine; Naloxone; Intrathecal (Liu, R.-J. (830) 183)

Descending inhibitory control
Neuropeptide FF; Rat spinal cord; Monoarthritis; Nociception; Chronic pain (Lombard, M.-C. (816) 598)

Desensitization to vanilloid
Resiniferatoxin; Vanilloid receptor; Substance P expression; Tachykinin NK-1 receptor expression (Szallasi, A. (815) 177)

Desglycinyl remacemide
Remacemide; MK-801; Anticonvulsant; Phencyclidine; SKF-10,047 (Ahmed, M.S. (827) 46)

Developing brain
Hippocampus; Dentate gyrus; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S100β protein (Janeczko, K. (816) 628)

Developing chick brain
G-actin; β-thymosin; ADF; Cofilin; Profilin (Devineni, N. (823) 129)

Developing spinal cord
Ethanol; Motoneuron excitability; Action potential waveform; Excitatory synaptic current; Inhibitory synaptic current (Cheng, G. (845) 224)

Development
NGF antibody; M1 receptor; Binding; Hippocampus; Juvenile rat (Rosati, A.M. (815) 185)

Brain; Macrophage migration inhibitory factor; Cytokine; Immunohistochemistry; In situ hybridization (Suzuki, T. (816) 457)

Locomotion; Reflex; Presynaptic inhibition; Strychnine (Jiang, Z. (816) 493)

Phrenic nerve; Laryngeal nerve; Respiratory regulation; Sudden infant death syndrome; Spectral analysis (Kocsis, B. (818) 180)

[^{3}H]MK-801 binding; NMDA channel; Ferrous ion; Spermidine (Ogita, K. (818) 548)

Oxytocin; Hypothalamus; Adrenocorticotropin; HPA axis; Sheep (Matthews, S.G. (820) 92)

Mitochondria; Ischemia; Brain; Reactive oxygen species (Keelan, J. (821) 124)

Epilepsy; Cholinergic; Seizure; Eserine; Ontogenesise (Gruslin, E. (835) 290)

Piglet; Hypercapnia; c-*fos*; Nucleus of the solitary tract; Area postrema (Sica, A.L. (837) 106)

Cell death; Sensory deprivation; Cerebral cortex (Papadopoulos, G.C. (838) 214)

Methylmercury; Sialyltransferase; Cerebellum; Neural cell adhesion molecule; Polysialylation (Dey, P.M. (845) 139)

Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo-pituitary-adrenal (HPA) axis; Nutrition; Fetus; Guinea pig (Lingas, R. (846) 236)

Dexamethasone; Glucocorticoid; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

Subcellular targeting; Neuron; Choroid plexus (Fields, H.M. (846) 260)

Entorhinal cortex; Spatial memory; Social behaviour; Rat; Schizophrenia (Talamini, L.M. (847) 105)

Nervous system; Pacemaker; Circadian rhythm; Cytokine (Lundkvist, G.B. (849) 231)

ATP; Rat cortical astrocyte; Stellation; Purinoceptor; Culture (Abe, K. (850) 150)

Reeler gene; Reelin; Striatum; Compartment; Rat (Nishikawa, S. (850) 244)

Hepatocyte growth factor; c-Met; Retina; Competitive RT-PCR; Immunohistochemistry (Sun, W. (851) 46)

Vasoactive intestinal peptide; Brain; Frog; Immunocytochemistry (Mathieu, M. (851) 105)

Dexamethasone
Serum deprivation; Cytotoxicity; Necrosis; Rat C6 glioma cell; Glucocorticoid receptor (Morita, K. (816) 309)

Glucocorticoid; Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

3-Methylindole; Olfactory axon; Anterograde labeling; Optical density; Rat (Kratskin, I.L. (847) 240)

Dexfenfluramine
Amylin; Postrema (Rowland, N.E. (820) 86)

Fluorine; Magnetic resonance spectroscopy; Neurotoxicity; Obesity; Pharmacokinetics (Christensen, J.D. (834) 1)

Dexmedetomidine
Rat; Locus coeruleus; Alpha-2 adrenergic; Atipamezole; Nitric oxide-cGMP system; Sedation (Vulliemoz, Y. (849) 169)

Dextromethorphan
DNA repair; ERCC6; Cerebral ischemia (Yin, K.-J. (815) 29)

Dimemorfan; Dextrorphan; Sigma receptor; PCP receptor; Locomotor activity; Anticonvulsant (Chou, Y.-C. (821) 516)

Neuroprotection; Hippocampus; Kainic acid; Activator protein-1; Fos-related antigen (Kim, H.-C. (824) 125)

Dextrorphan
Dimemorfan; Dextromethorphan; Sigma receptor; PCP receptor; Locomotor activity; Anticonvulsant (Chou, Y.-C. (821) 516)

DHPG
Group I; Metabotropic glutamate; In vivo; Phosphatidyl inositol hydrolysis; CHPG (Johnson, M.P. (821) 539)

Diabetes
Calcium; Morphine withdrawal; Thapsigargin; Frontal cortex; Noradrenaline (NA) turnover (Ohsawa, M. (815) 424)

Hippocampus; Memory; Glucose; Insulin; Muscimol; Oxotremorine; Bicuculinne; Acetylcholine (Messier, C. (818) 583)

Calcium; Allodynia; Hyperalgesia; Ryanodine; Thapsigargin; Spinal cord (Ohsawa, M. (833) 278)

Loss of righting reflex; Diazepam; Propofol; Benzodiazepine receptor (Ohsawa, M. (833) 282)

Diabetes mellitus
Spinal cord; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Alpha adrenoceptor (Bitar, M.S. (830) 1)

Diabetic neuropathy
Ischemia; Axonal degeneration (Zochodne, D.W. (838) 11)

Diacylglycerol
Phosphatidylcholine; Long chain acyl-CoA synthetase; Phospholipase; Nerve growth factor; PC12 cell (Li, J. (818) 252)

Fluid percussion brain injury; Excitatory amino acid receptor; Free fatty acid; Rat (Dhillon, H.S. (832) 7)

Diagnosis
Alzheimer's disease; CSF (Hampel, H. (823) 104)

Diagnostic marker
Cytokine; ELISA; Interleukin-6; Microglia; Tumour necrosis factor-α (Garlind, A. (826) 112)

Diagonal band of Broca
Vasopressin; Baroreflex (Abdelmalek, A. (821) 50)

Basal forebrain; Sleep; Non-REM; Thermoregulation; Thermosensitivity; GABA (Hays, T.C. (845) 215)

Dialysis electrode
Anoxia; Glutamate; Anoxic depolarization; Exocytosis; Reversed uptake (Satoh, M. (822) 142)

Diazepam
Loss of righting reflex; Propofol; Diabetes; Benzodiazepine receptor (Ohsawa, M. (833) 282)

Anxiety; Defense behavior; Orphanin FQ; Stress (Griebel, G. (836) 221)

Dietary selenium
Methamphetamine-induced neurotoxicity; Dopamine; Cu,Zn-superoxide dismutase; Ratio of reduced glutathione/oxidized glutathione; Glutathione peroxidase; Malondialdehyde; Oxidative stress (Kim, H.-C. (851) 76)

Diet-induced obesity
5-HT; 5-HT receptor; 5-HT transporter; Hypothalamus (Park, S. (847) 90)

Neuropeptide Y; Proopiomelanocortin; Hypothalamus; High-fat diet (Bergen, H.T. (851) 198)

Differential display
Golf; G protein; Herpes simplex virus (Wilkinson, R. (831) 311)

Differentiation
Globoid cell leukodystrophy; Demyelination; Forskolin; Galactocerebroside; Proliferation (Yamada, H. (816) 390)

Retina; Rod photoreceptor; Progenitor; Stem cell; Electrophysiology (Ahmad, I. (831) 1)

Tau; Phosphorylation; SY5Y human neuroblastoma cell; Microtubule binding (Haque, N. (838) 69)

Olfaction; Dopamine; Receptor; Neurogenesis (Féron, F. (845) 252)

Diffuse noxious inhibitory control
Muscle pain; Human; Hypertonic saline (Svensson, P. (851) 32)

Diffusion
Microcirculation; Oxygen; Activation; MRI; Blood flow; Metabolism (Hudetz, A.G. (817) 75)

Peptide; Blood–brain barrier; Saturable transport (Kastin, A.J. (848) 96)

Dihydrotestosterone
Testosterone; Estradiol; Flutamide; Aromatase inhibitor; Kindling model (Edwards, H.E. (838) 151)

3,4-Dihydroxyphenylglycolaldehyde
Neurotoxin; Locus ceruleus; Neuron death; Alzheimer's disease (Burke, W.J. (816) 633)

5,7-Dihydroxytryptamine
Grooming behavior; Hippocampus; NMDA antagonist; Scopolamine (Robertson, B.J. (838) 234)

Diisopropylphosphorofluoridate
N-tert-Butyl-α-phenylnitrone; Physostigmine salicylate; Pilocarpine hydrochloride; Kainic acid; Seizures; Rat (Zivin, M. (850) 63)

Diltiazem
Cardiac arrest; Cerebral ischemia; Hippocampal CA1; MK-801; Neuronal damage; Neuroprotection; Synergism (Li, M.M. (826) 44)

***Dilute–lethal* mouse**
Cerebellum; Purkinje cell; Ataxia; Tyrosine hydroxylase (Sawada, K. (844) 188)

Dimemorfan
Dextromethorphan; Dextrorphan; Sigma receptor; PCP receptor; Locomotor activity; Anticonvulsant (Chou, Y.-C. (821) 516)

3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay
Amyloid β protein; Cell death; Exocytosis; Oxidative stress; Rat hippocampal neurons (Abe, K. (830) 146)

Dipeptidyl peptidase IV
Endomorphin-2; Ala-pyrrolidonyl-2-nitrile; D-Pro^2-endomorphin-2; Naltrexone; Pain; Analgesia (Shane, R. (815) 278)

1,3-Dipropyl-8-cyclopentylxanthine
Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; Paired-pulse facilitation; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

Discriminant analysis
Tau; gp130; Interleukin-6 receptor complex; Soluble receptor; Biological marker; ELISA; Jackknife procedure (Hampel, H. (823) 104)

Discrimination
Morphine; Naloxone; Paraventricular nucleus; Perifornical area (Cleary, J.P. (847) 26)

Discrimination learning
Acetylcholine; Monkey; Saporin; Cortex; Hippocampus (Ridley, R.M. (836) 120)

Disease-modeling
Adeno-associated virus; Antisense; GAP-43; Green fluorescent protein (Klein, R.L. (832) 136)

Disinhibition
Lower midbrain; Non-shivering thermogenesis (Shibata, M. (833) 242)

Distal colon
Guinea pig; Submucous plexus; 5-Hydroxytryptamine; Nitric oxide; Immunocytochemistry (Kadowaki, M. (831) 288)

Distribution
Autoradiography; Receptor; Radioligand; *Tupaia belangeri*; Mapping (Mijnster, M.J. (841) 101)

Opioid-binding cell adhesion molecule; OB-CAM; Adult rat; Localization; Immunostaining (Hachisuka, A. (842) 482)

Nurr1; Tyrosine hydroxylase; Brain; Dopamine (Bäckman, C. (851) 125)

Diurnal
Nocturnal; Ventrolateral preoptic area; Fos; Circadian rhythm; Suprachiasmatic nucleus (Novak, C.M. (818) 375)

Diving response
Muskrat; Anterior ethmoidal nerve; C-fiber; Aδ fiber; Cardiorespiratory reflex (McCulloch, P.F. (830) 24)

Dizocilpine
Olanzapine; FG 7142; Cognition; Active avoidance paradigm; Elevated plus maze (Ninan, I. (830) 337)

Dizocipline
Cocaine; Nicotine; Ethanol; Sensitization; Dopamine transporter (Itzhak, Y. (818) 204)

DM-20 protein
Calcium; Oligodendrocyte; Apoptosis; Jimpy; Myelin; Proteolipid protein; Fura-2 (Knapp, P.E. (847) 332)

DMXB
Protein kinase C; Calcium; Tyrosine protein kinase; α7 Nicotinic receptor (Li, Y. (830) 218)

cDNA
Antisense; Opioid growth factor receptor; ζ-Opioid receptor; Rat; Gene; mRNA (Zagon, I.S. (849) 147)

cDNA array
Apoptosis; Cell death; Fluoro-Jade; Glutamate; TUNEL (Cirelli, C. (840) 184)

DNA-binding protein
RNA-binding protein; Brain (Wu, X.Q. (819) 174)

DNA fragmentation
Apoptosis; DNA repair; Cortical impact; Temporal profile; Rat; Hippocampus (Kaya, S.S. (818) 23)

Delayed neuronal death; Gerbil; 2-Deoxy-D-glucose; Hyperthermia (Hara, A. (840) 167)

DNA repair
ERCC6; Dextromethorphan; Cerebral ischemia (Yin, K.-J. (815) 29)

Apoptosis; DNA fragmentation; Cortical impact; Temporal profile; Rat; Hippocampus (Kaya, S.S. (818) 23)

DNA synthesis
Cornea; Epithelium; Wound healing; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (822) 149)

Cornea; Epithelium; Wound healing; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (839) 243)

DNQX
NBQX; Rabbit retina; AII amacrine; Excitatory amino acid receptor (Cohen, E.D. (831) 206)

DOI
VMN; Serotonin; MDL 100,907; SB 206553; Ketanserin (Wolf, A. (825) 146)

Domoic acid
Black-Gold; Myelin; Demyelination; Kainic acid; 3-Nitropropionic acid; Isoniazid (Schmued, L. (837) 289)

L-DOPA
Striatum; Dopamine release; Presynaptic D_2 receptor; Quinpirole; Microdialysis (Maeda, T. (817) 185)

Brain capillary endothelial cell; L-5-HTP; Cellular transport (Gomes, P. (829) 143)

6-Hydroxydopamine; 1-Methyl-4-phenylpyridinium; Neurotoxicity; Hypothalamic noradrenergic neuron; Nigro-striatal dopaminergic neuron; Vesicular monoamine transporter type 2 (Cleren, C. (830) 314)

DOPA-induced dyskinesia
Behavioral sensitization; Matrix; Neuronal plasticity; Striosome (Saka, E. (825) 104)

Dopamine
MAO B inhibitor; Selegiline; In vivo microdialysis; Striatum; Primate (Kaseda, S. (815) 44)

Circadian rhythm; Melatonin; Retina; Microdialysis; Pigeon (Adachi, A. (815) 435)

Mouse; Brain; Angiotensin receptor; Aging; Ethanol (Daubert, D.L. (816) 8)

Intracranial microdialysis; Fischer 344 rat; D-Amphetamine; Potassium; Basal level; Aging; Striatum (Gerhardt, G.A. (816) 68)

Rana pipiens; Retina; Amacrine cell; Immunocytochemistry; Tyrosine hydroxylase; Neurotransmitter (Kicliter, E. (816) 149)

Monkey; Parkinson's disease; Microdialysis; Substantia nigra (Gerhardt, G.A. (817) 163)

Neurotensin; Ibogaine; Cocaine; Methamphetamine; Drug abuse (Alburges, M.E. (818) 96)

Growth/differentiation factor 5; Parkinson's disease; Neuroprotection; 6-Hydroxydopamine (Sullivan, A.M. (818) 176)

Lipopolysaccharide; Norepinephrine; Serotonin; Corticosterone; ACTH; Anxiety; Exploration (Lacosta, S. (818) 291)

Methamphetamine; Neurotoxicity; Selenium; Caudate nucleus; Oxidative stress (Imam, S.Z. (818) 575)

Male sexual behavior; 8-OH-DPAT; Medial preoptic area; Serotonin; Raclopride; MPPI (Matuszewich, L. (820) 55)

Neural transplantation; Oxidative stress; Lipid peroxidation; Parkinson's disease; Anesthesia (Karlsson, J. (821) 546)

$Galanin_{rat}$; Galantide; Monoamine; Synthesis; Behavior; Rat (Ericson, E. (822) 200)

Tyrosine hydroxylase; Trophic factor; Sertoli cell; Transplantation (Willing, A.E. (822) 246)

Medial prefrontal cortex; Brain asymmetry; 6-Hydroxydopamine lesion; Locomotor activity behavior; Ethanol consumption (Nielsen, D.M. (823) 59)

Turning behavior; Ethanol consumption; Medial prefrontal cortex; Nucleus accumben; Brain asymmetry (Nielsen, D.M. (823) 80)

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Dopamine receptor antagonist
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Electroencephalography
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Hippocampus; Pb^{2+}; GABA; Glutamate; Transmitter release (Braga, M.F.M. (826) 22)

Trimetazidine; Kainic acid; Neurotoxicity; Cochlea (Gil-Loyzaga, P. (826) 95)

Apamin; Caesium; Tetraethylammonium; Spinal cord (Cazalets, J.-R. (827) 185)

Chemosensitivity; Medulla oblongata; Cardiovascular regulation; Single-cell RT-PCR; Catecholamines (Kawai, Y. (830) 246)

Retina; Rod photoreceptor; Progenitor; Stem cell; Differentiation (Ahmad, I. (831) 1)

4-Aminopyridine; Global ischemia; Synaptic transmission; Potassium channel (Zhang, L. (832) 31)

Dopamine; Striatum; Parkinson's disease; Freely moving rat (Kish, L.J. (833) 58)

Subfornical organ; Drinking; RAMPs; Receptors; Thirst (Riediger, T. (837) 161)

Trangenic; Mouse; Strain; Dentate gyrus (Bampton, E.T.W. (841) 123)

Ketamine; Anesthesia; Luteinizing hormone; Gonadotrophin-releasing hormone; Pulse generator; Thermoregulation; Telemetry (Goubillon, M.-L. (841) 197)

Hippocampus; Epileptiform activity; *Aconitum* alkaloid (Ameri, A. (842) 332)

Elevated plus maze
Olanzapine; FG 7142; Dizocilpine; Cognition; Active avoidance paradigm (Ninan, I. (830) 337)

Cerebellum; Anxiety; Benzodiazepine; $GABA_A$ receptor subtype (Vekovischeva, O.Y. (837) 184)

Elevated plus-maze
Neurosteroid; Anxiolytic; Hippocampus; Lateral septum; Defensive burying test (Bitran, D. (850) 217)

ELISA
Tau; gp130; Interleukin-6 receptor complex; Soluble receptor; Biological marker; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

Cytokine; Diagnostic marker; Interleukin-6; Microglia; Tumour necrosis factor-α (Garlind, A. (826) 112)

Dopamine-releasing protein (DARP); Rat C6 glioma cell; Immunocytochemistry; Neurotrophic factor (Smith, S. (843) 95)

El mouse
Zinc; Epilepsy; Seizure; Convulsion (Takeda, A. (828) 174)

Embolic MCA occlusion
Tie 1; Cerebral microvessel; Rat; In situ hybridization (Zhang, Z.G. (847) 338)

Embolic stroke
t-PA; u-PA; Cerebral ischemia; Mice (Ahn, M.Y. (837) 169)

Three-dimensional image analysis; Triple fluorescent labeling; Cerebral microvascular plasma perfusion; GFAP; MAP2; Laser-scanning confocal microscopy (Zhang, Z.G. (844) 55)

Embryonal carcinoma cell
Retinoblastoma protein; Neuronal differentiation; Site-specific anti-phospho-pRb antibody; Cyclin-dependent kinase (Watanabe, Y. (842) 342)

Embryonic carcinoma cell
$GABA_A$ receptor; Ethanol; Imaging; Subunit expression; RT-PCR (Chistina Grobin, A. (827) 1)

EMG
Lidocaine; 8-OH-DPAT; Serotonin; Nucleus raphe magnus; O_2 consumption (Berner, N.J. (831) 155)

Emotion
Corticotropin releasing factor; Substance P; Pressor response; Nucleus amygdaloideus centralis; Nucleus ventromedialis; Stress (Wu, J.-S. (842) 392)

Emotional stress
Communication box; Corticotropin-releasing factor; Corticotropin-releasing factor receptor antagonist; Feeding behavior; Locomotor activity (Hotta, M. (823) 221)

Enadoline
Rat; κ-Opioid receptor; Pentylenetetrazol; Seizure; Kindling; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Enantiomer
Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; P-glycoprotein; Selective serotonin reuptake inhibitor; Stereoselectivity; Transport (Rochat, B. (831) 229)

Endocannabinoid
Opioid; Cannabinoid; Dynorphin; Enkephalin; Analgesia (Welch, S.P. (848) 183)

Endocytosis
HIV; AIDS; Central nervous system; Astrocytes; Receptor (Hao, H.-N. (823) 24)

ATM; Ataxia-telangiectasia; Multivesicular body; Lysosomal pathway (Kuljis, R.O. (842) 351)

Endoderm
In situ hybridization; Immunocytochemistry; Organogenesis; Mesoderm; Ectoderm; Proenkephalin mRNA; ζ Opioid receptor (Zagon, I.S. (839) 313)

Endogenous antipyresis
Vagus nerve; Fever (Sugimoto, N. (844) 157)

Endogenous level
Nerve growth factor; Enzyme-linked immunosorbent assay; Brain (Fawcett, J.R. (842) 206)

Endogenous morphine
Invertebrate nervous system; Invertebrate immune system; Trauma response; High performance liquid chromatography; Immunohistochemistry; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

Endogenous opioid
Oral self-administration; β-Endorphin; Null mutant; C57BL/6 mouse (Grisel, J.E. (835) 62)

Endolymphatic potential
Gap junction; Ion transport; Fibrocyte; Spiral ligament; Stria vascularis (Xia, A.-P. (846) 106)

Endomorphin-1
Hyperalgesia; Analgesia; μ-opiate receptor; Orphanin FQ; ORL1 receptor (Wang, Y.-Q. (835) 241)

Endomorphin-2
Ala-pyrrolidonyl-2-nitrile; Dipeptidyl peptidase IV; D-Pro^2-endomorphin-2; Naltrexone; Pain; Analgesia (Shane, R. (815) 278)

Endopeptidase
Nuclear enzyme; Peptide; Intracellular metabolism; Neuropeptide; Oligopeptidase (Massarelli, E.E. (851) 261)

Endoplasmic reticulum
Orthophosphate; SERCA; Calcium homeostasis; Thapsigargin; Intracellular (Parsons, J.T. (834) 32)

β-Endorphin
Formalin test; Muscarinic receptor; Analgesia; Corticosterone; Behavior (Capone, F. (830) 292)

Oral self-administration; Endogenous opioid; Null mutant; C57BL/6 mouse (Grisel, J.E. (835) 62)

β-Endorphin analgesia
AP7; MK801; NMDA receptor; Scopolamine; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

Endothelial cell
Prostaglandin E_2; Brain; Endotoxin; Fever; Neuroimmunomodulation (Li, S. (825) 86)

Blood–brain barrier; Intercellular adhesion molecule-1; Vascular cell adhesion molecule-1; E-selectin; CD36; Cerebral malaria (Dobbie, M.S. (830) 330)

Endothelin
Newborn; Cerebral circulation; Hyperoxia (Armstead, W.M. (842) 252)

Focal cerebral ischemia; Reperfusion; FR139317; Laser Doppler flowmetry; Rat (Henshall, D.C. (843) 105)

Endotoxin
Fos immunohistochemistry; Stress; Cerebral cortex; Restraint; Hypothalamic paraventricular nucleus (Yokoyama, C. (816) 267)

Prostaglandin E_2; Brain; Endothelial cell; Fever; Neuroimmunomodulation (Li, S. (825) 86)

Energy balance
Hypertension; Hypothalamus; [D-Trp^{32}]NPY$_{(1-36)}$; [D-Tyr^{27,36} Thr^{32}]NPY$_{(27-36)}$ (VanNess, J.M. (821) 263)

Monoamine; γ-Aminobutyric acid; Ventromedial nucleus; Paraventricular nucleus; Feeding behavior (Ohtani, N. (842) 6)

Ventromedial nucleus; Amygdala; Orexin A; Orexin B (Dube, M.G. (842) 473)

Paraventricular thalamus; Circadian rhythm; Chronic stress; Feeding; Temperature (Bhatnagar, S. (851) 66)

Energy depletion
Astrocyte; Excitotoxicity; Cell swelling; Volume-sensitive organic osmolyte-anion channel (Rutledge, E.M. (842) 39)

Energy metabolism
Sodium pump; MCAO (Jamme, I. (819) 132)

Four-vessel occlusion; Adenosine; Reference memory; Working memory; Passive avoidance (Plaschke, K. (830) 320)

Cerebral ischemia; Brain edema; Cerebral blood flow; Induced hypertension (Hosomi, N. (835) 188)

Glutamate transporter; Glia; Non-competitive inhibition; Glucose utilization (Debernardi, R. (850) 39)

Enkephalin
Opioid receptor-like 1; Blood pressure; Heart rate; Circulation; Opiate; NC-NH_2; Naloxone (Chu, X. (829) 134)

Opioid; Cannabinoid; Dynorphin; Analgesia; Endocannabinoid (Welch, S.P. (848) 183)

Enkephalinergic
Neurotoxicity; Nitric oxide; Quinolinic acid (Kalisch, B.E. (817) 151)

Ensemble
Nucleus accumbens; Addiction; Alcohol; Self-administration; Striatum; Basal ganglia; Rat; In vivo electrophysiology (Janak, P.H. (817) 172)

Enteric glia
Adenylyl cyclase isoform; Cyclic AMP; FlCRhR fluorescence; Myenteric ganglia; Calbindin-D_{28} immunoreactive myenteric neuron; AH/Type 2 neuron (Liu, C.Y. (826) 253)

Astrocyte; GFAP; Inflammation; Injury; Schwann cell (Sofroniew, M.V. (835) 91)

Entopeduncular nucleus
Immediate early gene; c-*fos*; Striatum; Globus pallidus; Subthalamic nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

Entorhinal cortex
Calcium current; Current density; Rat; Patch-clamp; Whole cell (Bruehl, C. (816) 554)

Autoradiography; cAMP-dependent protein kinase; Human brain; Hippocampus; Alzheimer's disease; Neuropathological change; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

Combined tetrodotoxin reversible inactivation; Fimbria–fornix complex; Medial septal area; Memory consolidation; Rat's passive avoidance (Baldi, E. (821) 503)

Hippocampus; Midtemporal gyrus; Midfrontal gyrus; Polymerase chain reaction; Cerebellum (Yasojima, K. (831) 301)

Isolated guinea pig brain; Optical imaging; Piriform cortex; Voltage-sensitive dyes (De Curtis, M. (837) 314)

Estrogen; Progesterone; Seizure; Flurothyl; Hippocampus (Velíšek, L. (842) 132)

Development; Spatial memory; Social behaviour; Rat; Schizophrenia (Talamini, L.M. (847) 105)

Alzheimer's disease; Adenylyl cyclase; G-protein; Signal transduction; Autoradiography; [^{3}H]Forskolin; Guanylyl-5'-imidodiphosphate; Hippocampus (García-Jiménez, A. (850) 104)

Entrainment
Circadian rhythm; Photoperiod; Melatonin; Cortisol; Human (Vondrašová-Jelínková, D. (816) 249)

Suprachiasmatic nucleus; Retina; Illumination; Electrophysiology; Degu; Rat; Circadian (Jiao, Y.-Y. (817) 93)

Circadian rhythm; Zeitgeber; Morphine; C57BL/6j mouse (Mistlberger, R.E. (829) 113)

Rhythm; Arcuate nucleus; Neuropeptide Y; Food deprivation; Masking; Obesity (Mistlberger, R.E. (842) 73)

Enuresis
Brainstem; Cholinergic neuron; Vigilance; Micturition; Barrington's nucleus (Koyama, Y. (840) 45)

Enzymatic activity
3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Gene expression; Progesterone; Quail brain; Reverse transcription-polymerase chain reaction (Ukena, K. (818) 536)

Enzyme biotransformation
Nociceptin/orphanin FQ; Cultured cells; Morphine treatment; Mass spectrometry (Vlaskovska, M. (818) 212)

Enzyme-linked immunosorbent assay
Nerve growth factor; Brain; Endogenous level (Fawcett, J.R. (842) 206)

EP24.15
Metalloendopeptidase; Extracellular membrane association; AtT-20 cell (Crack, P.J. (835) 113)

Eph receptor
Receptor tyrosine kinase; Glioblastoma cell line; Cell proliferation (Bruce, V. (821) 169)

Epidermal growth factor
A_1 adenosine receptor; Receptor regulation; Agonist; Antagonist; Pituitary cell (Navarro, A. (816) 47)

Organotypic culture; Neomycin intoxication; Protective action; Retinoic acid; Insulin; Transforming growth factors (Romand, R. (825) 46)

Epilepsy
Absence seizure; Tonic–clonic seizure; Branched-chain amino acid; Branched-chain ketoacid (Dufour, F. (815) 400)

G protein; G_{i2} mRNA; G_s mRNA; Kindling; Signal transduction system (Iwasa, H. (818) 570)

Brain-derived neurotrophic factor; Nerve growth factor; Neurotrophin-3; Neuropeptide Y; Human (Takahashi, M. (818) 579)

Zinc; El mouse; Seizure; Convulsion (Takeda, A. (828) 174)

Retrohippocampal region; Cortical circuitry (Stewart, M. (830) 274)

Ihara epileptic rat; Limbic-like seizure; Mossy fiber sprouting; Neuronal plasticity (Amano, S. (834) 214)

Cholinergic; Seizure; Eserine; Development; Ontogenesise (Gruslin, E. (835) 290)

Ammonium prepulse technique; Intracellular pH; Excitability; Hippocampal slice (guinea pig) (Bonnet, U. (840) 16)

Monoamine transporter; Norepinephrine; Locus coeruleus; Rat (Bengzon, J. (842) 239)

NMDA; Glutamate; Pregnancy; Rat; Seizure (Standley, C.A. (844) 10)

Retrohippocampal region; Cortical circuitry (Funahashi, M. (849) 139)

Status epilepticus; Calcium; NMDA receptor; Calcium channel; Intracellular calcium (Pal, S. (851) 20)

Epilepsy model
Kainate-treated rat; Hippocampal slice; Oxidative phosphorylation; Calcium cycling (Kunz, W.S. (826) 236)

Epilepsy models
Hippocampal slice; Prediction; Correlation dimension; Guinea pigs (Widman, G. (836) 156)

Epileptiform activity
Genetic absence epilepsy rats of Strasbourg (GAERS); Field potential; CA1 area; Hippocampus; Paired pulse (Armand, V. (841) 62)

Hippocampus; Electrophysiology; *Aconitum* alkaloid (Ameri, A. (842) 332)

Epithelium
Cornea; Wound healing; DNA synthesis; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (822) 149)

Cornea; DNA synthesis; Wound healing; Cell migration; Limbus; Conjunctiva (Zagon, I.S. (839) 243)

EPSP
Antidromic; Afterpotentials; CA1; Cyclohexyladenosine; 8-Cyclopentyltheophylline (Fowler, J.C. (837) 309)

fEPSP
Population spike; CA1; Cyclohexyladenosine; 8-cyclopentyltheophylline (Fowler, J.C. (815) 414)

EPYLRFamide
SEPYLRFamide; SEGYLRFamide; SRPYLRFamide; SKPYLRFamide; Acetylcholine; Identified neurones; *Helix lucorum* (Pivovarov, A.S. (821) 294)

Equilibrium
Center of mass; Feedforward and feedback control; Human (Vernazza-Martin, S. (846) 12)

ERα
ERβ; Reproduction; Learning; Memory (Rissman, E.F. (835) 80)

ERβ
ERα; Reproduction; Learning; Memory (Rissman, E.F. (835) 80)

ERCC6
DNA repair; Dextromethorphan; Cerebral ischemia (Yin, K.-J. (815) 29)

Escape behavior
Tetrodotoxin; Cadmium chloride; Optic tectum; Optic nerve; Myelinated and unmyelinated axons; OFF fiber (King Jr., J.G. (841) 20)

Escape deficit
Benzodiazepine withdrawal; Anhedonia; Depression; Antidepressant (Lacerra, C. (819) 40)

Lithium; Rubidium; Stress; Dopamine; Microdialysis (Gambarana, C. (826) 200)

ES cell
Corpus callosum; Knockout; 129 mouse; C57 mouse; Spatial learning; Non-spatial learning (Balogh, S.A. (836) 38)

E-selectin
Cytokine; Mouse; Cerebral ischemia (Hill, J.K. (820) 45)

Blood–brain barrier; Endothelial cell; Intercellular adhesion molecule-1; Vascular cell adhesion molecule-1; CD36; Cerebral malaria (Dobbie, M.S. (830) 330)

Eserine
Epilepsy; Cholinergic; Seizure; Development; Ontogenesise (Gruslin, E. (835) 290)

Esophagocardiac reflex
Vagus nerve; Retrograde tracing; Double labeling; Parasympathetic motoneuron (Cheng, S.-B. (832) 171)

Estradiol
Sex difference; Brain weight; Testosterone (Galea, L.A.M. (821) 383)

Progesterone; Corticosterone; Threshold; Kindling (Edwards, H.E. (838) 136)

Testosterone; Dihydrotestosterone; Flutamide; Aromatase inhibitor; Kindling model (Edwards, H.E. (838) 151)

BDNF; Hormone replacement; Hippocampus; Cognition; Alzheimer's disease (Gibbs, R.B. (844) 20)

Dura; Histamine; Mast cell; Migraine; Neuron; Neuropeptide; Secretion; Substance P; Stress (Rozniecki, J.J. (849) 1)

Estrogen
Feeding; Lordosis; Opiate; Ultrastructure; Glucose; GAD (Commons, K.G. (816) 58)

5α pregnan-3α-ol-20-one (3α,5α-THP); Stress; Benzodiazepine; Progesterone (Wilson, M.A. (824) 136)

Olfactory function; Rat; 3-Methylindole (Dhong, H.-J. (824) 312)

Progesterone; Seizure; Flurothyl; Hippocampus; Entorhinal cortex (Velíšek, L. (842) 132)

Angiotensin II; Expression profiling; Water intake; Subfornical organ; Pituitary (Kisley, L.R. (844) 34)

Raloxifene; Choline acetyltransferase activity; Hippocampus (Wu, X. (847) 98)

Estrogen receptor
Progesterone receptor; In situ hybridization histochemistry; Lateral geniculate nucleus (Horvath, T.L. (844) 196)

Estrous cycle
Galanin; Gonadotropin-releasing hormone; GnRH; Luteinizing hormone-releasing hormone; Immunohistochemistry (Rajendren, G. (821) 270)

Estrous cycle differences
Extracellular serotonin; Gender differences; Reuptake; Terminal autoreceptors (Maswood, S. (831) 146)

Ethacrynic acid
c-fos; Nerve growth factor; Generalized tonic–clonic convulsion; Seizure susceptibility; Parvalbumin (Suzukawa, J. (834) 89)

Ethanol
Mouse; Brain; Angiotensin receptor; Dopamine; Aging (Daubert, D.L. (816) 8)

Basolateral amygdala; Calcium channel; *N*-methyl-D-aspartate (Calton, J.L. (816) 142)

Calcium; Nicotinic receptor; Neuroprotection; Pheochromocytoma (PC12) cell (Li, Y. (816) 225)

Bcl-2; Apoptosis; Fetal alcohol syndrome; Neuroprotection (Heaton, M.B. (817) 13)

Cocaine; Nicotine; Dizocipline; Sensitization; Dopamine transporter (Itzhak, Y. (818) 204)

Medial prefrontal cortex; Brain asymmetry; Dopamine; Locomotor activity behavior; Nucleus accumbens (Nielsen, D.M. (823) 207)

Calcium; Calcium channel blocker; Hypothalamic cell (Simasko, S.M. (824) 89)

$GABA_A$ receptor; Embryonic carcinoma cell; Imaging; Subunit expression; RT-PCR (Chistina Grobin, A. (827) 1)

Acetaldehyde; Astrocyte; Apoptosis; Necrosis; Rat (Holownia, A. (833) 202)

Brain injury; Lactate; Shock (Zink, B.J. (837) 1)

Motoneuron excitability; Action potential waveform; Excitatory synaptic current; Inhibitory synaptic current; Developing spinal cord (Cheng, G. (845) 224)

c-Fos; FosB; Zif268; Edinger–Westphal (Bachtell, R.K. (847) 157)

Ethanol consumption
Medial prefrontal cortex; Brain asymmetry; Dopamine; 6-Hydroxydopamine lesion; Locomotor activity behavior (Nielsen, D.M. (823) 59)

Turning behavior; Medial prefrontal cortex; Dopamine; Nucleus accumben; Brain asymmetry (Nielsen, D.M. (823) 80)

***N*-Ethyl-maleimide**
TRH; Glucocorticoid; Hypothalamus; Phorbol ester; AP-1; CREB (Luo, L.-G. (841) 189)

α-Eudesmol
ω-Agatoxin IVA (ω-Aga-IVA); P/Q-type Ca^{2+} channel; Synaptosome; Cerebellar Purkinje cell; NG108-15 cell (Asakura, K. (823) 169)

Event-related potential
Selective attention; Modality specific processing; Supramodal brain system; Negativity difference; N1; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Evoked potential
Pain; Antinociception; Centromedian–parafascicular complex; Brain rewarding stimulation; Rabbit ontogenesis (Butkevich, I.P. (834) 13)

Evoked response
Cerebral cortex; Magnetoencephalography; Aging; Gender; Sex; SEF; SEP (Huttunen, J. (818) 196)

Evolution
Neuropeptide; Oxytocin; Vasopressin; Neuropeptide Y; Receptor (Hoyle, C.H.V. (848) 1)

Evolution of ischemia
Cerebral ischemia, focal; Photothrombosis; Reperfusion; Penumbra; Rat (Hu, X.L. (849) 175)

Exchange assay
Trihexyphenidyl; Biperiden; Learning and memory; Passive avoidance; Scatchard analysis (Kimura, Y. (834) 6)

Excitability
Ammonium prepulse technique; Intracellular pH; Epilepsy; Hippocampal slice (guinea pig) (Bonnet, U. (840) 16)

Drosophila; Rat; Hypoxia; Cyanide (Gu, X.Q. (845) 6)

Excitatory amino acid
AMPA; Barbiturate anesthesia; 2,3-Benzodiazepine; Kainate; Ketamine (Ruiz, A. (818) 421)

Glutamate reuptake blocker; L-PDC; Nucleus accumbens; Locomotor activity (Kim, J.-H. (819) 165)

Respiration; Ionotropic glutamate receptor; Metabotropic glutamate receptor; Lamprey; Control of breathing (Bongianni, F. (826) 298)

AMPA receptor; Amygdala; GABA; Immunogold; Ultrastructure (He, Y. (827) 51)

Microdialysis; HPLC; Inhibitory amino acid (Geddes, J.W. (831) 104)

GYKI 52466; Cerebral blood flow (Sinha, A.K. (842) 230)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Microdialysis; Blood pressure (Lillaney, R. (844) 164)

Serotonin; NMDA; Receptor; Circadian rhythm (Kennaway, D.J. (845) 102)

Cytokine; Immunohistochemistry; Neuroprotection; Excitotoxicity (Liu, X.-H. (851) 94)

Excitatory amino acid receptor
NBQX; Rabbit retina; AII amacrine; DNQX (Cohen, E.D. (831) 206)

Fluid percussion brain injury; Diacylglycerol; Free fatty acid; Rat (Dhillon, H.S. (832) 7)

Excitatory amino acid transporter
L-Glutamate transport; EAAT; Human astrocytoma (Dunlop, J. (839) 235)

Excitatory synaptic current
Ethanol; Motoneuron excitability; Action potential waveform; Inhibitory synaptic current; Developing spinal cord (Cheng, G. (845) 224)

Excitotoxicity
NMDA receptor; Ototoxicity; Aminoglycoside; Neomycin; Polyamine (Segal, J.A. (815) 270)

Mouse; Inbred strain; Cognition; Kainic acid (Royle, S.J. (816) 337)

Hypothermia; Traumatic brain injury; Cerebral ischemia; Hippocampus; Spatial memory; Rat (Jenkins, L.W. (817) 132)

Cell culture; Glutamate; Hypoglycemia; Ischemia; Neurotoxicity (Regan, R.F. (817) 145)

Interleukin-1; AMPA; Temperature; Fever; Neurodegeneration; Striatum (Grundy, R.I. (830) 32)

Dopamine; Striatum; Mitochondria; Reactive oxygen species; Monoamine oxidase (Maragos, W.F. (834) 168)

Astrocyte; Cell swelling; Energy depletion; Volume-sensitive organic osmolyte-anion channel (Rutledge, E.M. (842) 39)

Alzheimer; Apoptosis; Calorie restriction; Hydroxynonenal; Kainate; Oxidative stress (Zhu, H. (842) 224)

Cell death; Regeneration; Staurosporine; Glutamate (Small, D.L. (842) 376)

Glutamate release; Terfenadine (Díaz-Trelles, R. (842) 478)

Organotypic culture; Hippocampus; Ischaemic preconditioning; Heat shock protein (Pringle, A.K. (845) 152)

NMDA receptor; Fura-2; Magfura-2; Calcium; mRNA (Cheng, C. (849) 97)

Cytokine; Excitatory amino acid; Immunohistochemistry; Neuroprotection (Liu, X.-H. (851) 94)

Excitotoxity
Calcium channel; Metabotropic glutamate receptor; Neostriatum; *N*-Methyl-D-aspartate; Toxicity (Colwell, C.S. (833) 234)

Executed complex sequential finger movements
Gating effect; Somatosensory evoked cortical responses; High resolution EEG (Rossini, P.M. (843) 161)

Exercise
Blood pressure; Calcium/calmodulin; Dopamine receptor; Dopamine synthesis in brain; Spontaneously hypertensive rat (Akiyama, K. (823) 154)

Fatigue; TGF-β; Hydra; Spontaneous motor activity (Inoue, K. (846) 145)

Exocytosis
Brain-derived neurotrophic factor; Synaptic vesicle; FM1-43; Neurotransmitter; Synaptic plasticity (Bradley, J. (815) 140)

Anoxia; Glutamate; Dialysis electrode; Anoxic depolarization; Reversed uptake (Satoh, M. (822) 142)

Amyloid β protein; 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay; Cell death; Oxidative stress; Rat hippocampal neurons (Abe, K. (830) 146)

Dentate gyrus; Hippocampus; Hyperactivity; Theta; Paired-pulse inhibition; GABA (Steffensen, S.C. (847) 186)

Expiration
Reticular formation; Motoneuron; Pseudorabies virus; Respiration; Vestibular (Billig, I. (820) 31)

Exploration
Lipopolysaccharide; Norepinephrine; Dopamine; Serotonin; Corticosterone; ACTH; Anxiety (Lacosta, S. (818) 291)

Expression
Neurotrophic factor; NTN; Adrenal gland; Gut; Ovary (Xian, C.J. (835) 247)

Expression pattern
Peptide function; Model organism (Li, C. (848) 26)

Expression profiling
Angiotensin II; Estrogen; Water intake; Subfornical organ; Pituitary (Kisley, L.R. (844) 34)

Extended amygdala
c-Fos; Opioid; CTAP; Nor-binaltorphimine (Carr, K.D. (822) 34)

Extracellular ATP
Ecto-ATPase; Cerebellum; Granule cell layer; Synaptic transmission; Signal transduction (Zinchuk, V.S. (815) 111)

Extracellular field potential
Electrical kindling; Dentate gyrus; Group III mGluR; L(+)-2-Amino-4-phosphonobutyric acid (Friedl, M. (821) 117)

Extracellular matrix
Chondroitin sulphate proteoglycan; Parvalbumin; Perineuronal net; Phosphacan; Rat cerebral cortex; WFA (Haunsø, A. (834) 219)

Chondroitin sulphate proteoglycans; Fast-firing neurons; Parvalbumin; Triple fluorescence labelling; Rat; Monkey (Härtig, W. (842) 15)

Extracellular membrane association
EP24.15; Metalloendopeptidase; AtT-20 cell (Crack, P.J. (835) 113)

Extracellular potassium concentrations
Slow voltage variation; Brain damage; Ischemia; Rose bengal; Trolox; Membrane permeability; Chick retina (Netto, M. (827) 221)

Extracellular recording
Corticosterone; Rapid effect; Rostral ventrolateral medulla; Microiontophoresis (Rong, W. (815) 51)

Extracellular serotonin
Estrous cycle differences; Gender differences; Reuptake; Terminal autoreceptors (Maswood, S. (831) 146)

Extracellular space
Benzolamide; CaATPase; Carbonic anhydrase; Calcium channel; pH regulation (Tong, C.-K. (815) 373)

Extracellular unit recording
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Feeding circadian rhythm
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C-Fos
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FosB
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c-Fos expression
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Fura-2
Oligodendrocyte; Intracellular Ca^{2+}; Phorbol ester; Process extension; Protein kinase C (Yoo, A.S.J. (827) 19)

Magnesium; Mag-Fura-2; Magnesium Green; Fura Red; Dorsal root ganglion; Depolarization; Confocal microscopy (Gotoh, H. (828) 163)

Rat; Spike; Visual cortex; Voltage-dependent calcium channel (Isomura, Y. (832) 175)

Calcium; Oligodendrocyte; Apoptosis; Jimpy; Myelin; Proteolipid protein; DM-20 protein (Knapp, P.E. (847) 332)

NMDA receptor; Excitotoxicity; Magfura-2; Calcium; mRNA (Cheng, C. (849) 97)

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Cytosolic Ca^{2+}; Na^+/K^+ exchanger antagonist; L-type voltage-gated Ca^{2+} channel; D600; Ca^{2+}-free; Na^+-free (Sato, M. (828) 193)

Fura Red
Magnesium; Fura-2; Mag-Fura-2; Magnesium Green; Dorsal root ganglion; Depolarization; Confocal microscopy (Gotoh, H. (828) 163)

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Clonidine; Dopamine-β-hydroxylase; Food intake; Chicken (Bungo, T. (826) 313)

Fusimotor
Kinaesthesia; Muscle spindle; Contraction; Stretch; Sensation (Wise, A.K. (821) 87)

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G_i
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G_o
Vomeronasal organ; cAMP; IP_3; Urine; G_i (Sasaki, K. (823) 161)

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Interneuron; Astrocyte; Neocortex; Hippocampus (Yan, X.-X. (816) 317)

Anesthetic; Dentate gyrus; Hippocampus; Olfactory cortex; Perforant path; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Glutamate; Immunogold; Solitarius; Infralimbic; Ultrastructure (Torrealba, F. (820) 20)

Glutamate; Striatum; Integration; Modulation (Kiyatkin, E.A. (822) 88)

$GABA_A$ receptor; Benzodiazepine; Hippocampus; [^{3}H]L-655,708; [^{3}H]Ro15-1788 (Sur, C. (822) 265)

Noradrenaline; Locus coeruleus; Prefrontal cortex; Glutamate; Microdialysis (Kawahara, Y. (823) 42)

Telencephalon; Microdialysis; Fish; Hypoxia; *Carassius carassius* L.; Glutamate; Aspartate; Taurine; Metabolic depression; Ischemia (Hylland, P. (823) 49)

GnRH; Hypothalamus; GT1–7 cell (King, T.S. (824) 56)

Hippocampus; Pb^{2+}; Electrophysiology; Glutamate; Transmitter release (Braga, M.F.M. (826) 22)

Excitatory amino acid; AMPA receptor; Amygdala; Immunogold; Ultrastructure (He, Y. (827) 51)

Cerebral ischemia; Amino acid release; Swelling; Volume regulation; Glutamate; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Arterial blood pressure; Heart rate; Glutamate (Freda, B.J. (828) 60)

Cerebral ischemia; Seizure; NMDA; Lidocaine; Pentylenetetrazol (Kim, D.-C. (831) 131)

NMDA; Dopamine; Burst; Isoguvacine; Basal ganglia (Paladini, C.A. (832) 145)

Acoustic startle response; Picrotoxin; Prepulse inhibition; Rat; Schizophrenia; Sensorimotor gating; Superior colliculus (Fendt, M. (833) 81)

Acetylcholine; Cerebral blood flow; Cholinergic system; Rat; *substantia innominata* (Barbelivien, A. (834) 223)

Striatum; In situ hybridization; Neuropeptide; Amphetamine; SKF-82958 (Jones, E.A. (836) 99)

Nitric oxide; Convulsion; GABA-T; GAD; Glutamic acid (Jayakumar, A.R. (837) 229)

Substantia nigra pars reticulata; IPSC; Tiagabine; CGP55845A (Chan, P.K.Y. (838) 18)

Calcitonin gene-related peptide; Retinal axon terminal; Dorsal terminal nucleus; Lateral terminal nucleus; Medial terminal nucleus; Calcium binding protein (Zhou, J. (838) 119)

^{13}C NMR spectroscopy; [2-^{13}C] Glucose; Anaplerotic pathway, Glutamate; Glutamine (Kanamatsu, T. (841) 11)

Circadian rhythm; Suprachiasmatic nucleus; γ-Aminobutyric acid; Tetrodotoxin; Muscimol; Rat; Brain slice (Bergeron, H.E. (841) 193)

Diagonal band of Broca; Basal forebrain; Sleep; Non-REM; Thermoregulation; Thermosensitivity (Hays, T.C. (845) 215)

Dentate gyrus; Hippocampus; Hyperactivity; Theta; Paired-pulse inhibition; Exocytosis (Steffensen, S.C. (847) 186)

Muscimol; Flunitrazepam; TBPS; PDBu; Autoradiogram (Oh, S. (850) 158)

Tiagabine; Uptake site; GAT-1; Frontal cortex; Human (Sundman Eriksson, I. (851) 183)

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$GABA_A$
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GABAergic interneuron
Ischemia; Hypoxia; Aggregate cell culture; Cholinergic neuron; Selective vulnerability (Pardo, B. (818) 84)

GABAergic neuron
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GABAergic system
Morris water maze; Inhibitory avoidance; NMDA (Spanis, C.W. (816) 329)

Basal ganglia; Dorsomedial caudate–putamen; Movement disorder; Paroxysmal dyskinesia; Type II neuron (Gernert, M. (821) 277)

GABA (γ-aminobutyric acid)
Waglerin-1; Whole-cell current; Patch-clamp; Nucleus accumbens; Protein kinase A (Ye, J.-H. (837) 29)

GABA receptor
Cerebral ischemia; Cortical lesion; Plasticity (Neumann-Haefelin, T. (816) 234)

$GABA_A$ receptor
Acetylcholine; AF64A; $GABA_B$ receptor; Rat; Striatum (Ikarashi, Y. (816) 238)

GABA; Benzodiazepine; Hippocampus; [^{3}H]L-655,708; [^{3}H]Ro15-1788 (Sur, C. (822) 265)

Amphetamine; Sensitization; Gamma-aminobutyric acid; Locomotion; Prefrontal cortex (Gruen, R.J. (825) 180)

Embryonic carcinoma cell; Ethanol; Imaging; Subunit expression; RT-PCR (Chistina Grobin, A. (827) 1)

Neurosteroid; Dehydroepiandrosterone sulfate; Pregnanolone; Allopregnanolone (Park-Chung, M. (830) 72)

Neurosteroid; Pregnenolone sulfate; NMDA receptor; Seizure (Kokate, T.G. (831) 119)

Neurosteroid; Nitric oxide (Mehta, A.K. (832) 164)

Antidepressant; Amitriptyline; $^{36}Cl^-$ influx; Recombinant WSS-1 cell; HEK-293 cell (Malatynska, E. (851) 277)

$GABA_B$ receptor
Acetylcholine; AF64A; $GABA_A$ receptor; Rat; Striatum (Ikarashi, Y. (816) 238)

Mossy fiber LTP; Mu opioid receptor; Rat hippocampal slice (Jin, W. (821) 286)

Calcium channel; Presynaptic inhibition; Lamprey; Sensory transmission (Bussières, N. (847) 175)

$GABA_C$ receptor
Rho subunit; Subunit assembly; Heterologous expression (Enz, R. (846) 177)

$GABA_A$-receptor agonist
2-Fluoro-2-deoxy-D-[^{14}C(U]glucose; $GABA_A$-receptor antagonist; Medial geniculate nucleus; Subgeniculate thalamic nucleus (Richter, K. (831) 184)

$GABA_A$-receptor antagonist
2-Fluoro-2-deoxy-D-[^{14}C(U]glucose; $GABA_A$-receptor agonist; Medial geniculate nucleus; Subgeniculate thalamic nucleus (Richter, K. (831) 184)

$GABA_A$ receptor subtype
Cerebellum; Anxiety; Benzodiazepine; Elevated plus maze (Vekovischeva, O.Y. (837) 184)

GABA release
N-Methyl-D-aspartate; Neurointermediate lobe (Pampillo, M. (842) 469)

ACh release; Dopamine; Glutamate; NMDA; Striatum; Parkinson's disease (Hanania, T. (844) 106)

GABA-T
Nitric oxide; Convulsion; GABA; GAD; Glutamic acid (Jayakumar, A.R. (837) 229)

G-actin
Developing chick brain; β-thymosin; ADF; Cofilin; Profilin (Devineni, N. (823) 129)

GAD
Feeding; Lordosis; Opiate; Ultrastructure; Estrogen; Glucose (Commons, K.G. (816) 58)

Nitric oxide; Convulsion; GABA; GABA-T; Glutamic acid (Jayakumar, A.R. (837) 229)

GAD_{65}
Circadian; GAD_{67}; SCN; In situ hybridization; GABA; Rat (Huhman, K.L. (851) 266)

GAD_{67}
Circadian; GAD_{65}; SCN; In situ hybridization; GABA; Rat (Huhman, K.L. (851) 266)

Gadolinium
Angiotensin II; Calcium channel; Renal function; Losartan; Zinc; Blood pressure (De Castro-e-Silva, E. (845) 176)

GAIPIRRH
Chromogranin; Processing; 5-Hydroxytryptamine-moduline; Genomic imprinting (Lovisetti-Scamihorn, P. (829) 99)

Galactocerebroside
Globoid cell leukodystrophy; Demyelination; Forskolin; Proliferation; Differentiation (Yamada, H. (816) 390)

Oligodendrocyte; Demyelination; Remyelination; Jimpy ice; Sulfatide (Cammer, W. (837) 188)

Galanin
Perinatal overnutrition; Overweight; Insulin; Hypothalamus; Paraventricular hypothalamic nucleus (Plagemann, A. (818) 160)

Gonadotropin-releasing hormone; GnRH; Luteinizing hormone-releasing hormone; Estrous cycle; Immunohistochemistry (Rajendren, G. (821) 270)

Periaqueductal grey; Nociceptive response latency; Opioid peptide; Naloxone (Wang, D. (834) 152)

Early overnutrition; Hypothalamus; Insulin; Syndrome X (Plagemann, A. (836) 146)

Acetylcholine; Serotonin; Cognition; Spatial learning; Passive avoidance; Microdialysis (Ögren, S.O. (848) 174)

$Galanin_{rat}$
Galantide; Monoamine; Dopamine; Synthesis; Behavior; Rat (Ericson, E. (822) 200)

Galanin receptor
Receptor autoradiography; Drug reinforcement (Zachariou, V. (831) 33)

Galantide
$Galanin_{rat}$; Monoamine; Dopamine; Synthesis; Behavior; Rat (Ericson, E. (822) 200)

Galvanic stimulation
Human; Posture; Sensory interaction; Vestibular; Somatosensory (Hlavacka, F. (821) 8)

Gamma-aminobutyric acid
Amphetamine; Sensitization; $GABA_A$ receptor; Locomotion; Prefrontal cortex (Gruen, R.J. (825) 180)

Gamma irradiation
Developing brain; Hippocampus; Dentate gyrus; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S100β protein (Janeczko, K. (816) 628)

Gamma wave
Hippocampal CA1; Medial septum; Temporal lobe seizure; Psychomotor behavior; Locomotion (Ma, J. (833) 51)

Ganglionic layer
CD38; ADP–ribosyl cyclase; Retina; Inner nuclear layer (Khoo, K.M. (821) 17)

Ganglion neurons
Ischemia; Glutamate; *N*-methyl-D-aspartate; Neuronal death (Yoon, Y.H. (823) 33)

GAP-43
Adeno-associated virus; Antisense; Disease-modeling; Green fluorescent protein (Klein, R.L. (832) 136)

BDNF; Facial nerve; Regeneration; In situ hybridization; Drug delivery system (Kohmura, E. (849) 235)

Gap junction
Arachidonic acid; Connexin; Dye coupling; Cyclooxygenase; Melatonin (Martínez, A.D. (816) 411)

Ion transport; Endolymphatic potential; Fibrocyte; Spiral ligament; Stria vascularis (Xia, A.-P. (846) 106)

Connexin; Rat carotid body; cAMP; Cell–cell communication; Primary culture (Abudara, V. (849) 25)

GAP-43 mRNA
Wobbler mouse; Glucocorticoid; 21-Aminosteroid; Amyotrophic lateral sclerosis; Spinal cord; In situ hybridization (González Deniselle, M.C. (841) 78)

GAT-1
GABA; Tiagabine; Uptake site; Frontal cortex; Human (Sundman Eriksson, I. (851) 183)

Gating
SEP; Writing; Skill; Non-dominant hand (Hoshiyama, M. (833) 10)

Gating effect
Somatosensory evoked cortical responses; High resolution EEG; Executed complex sequential finger movements (Rossini, P.M. (843) 161)

GDNF
MPTP; Competitive RT-PCR; GDNF mRNA expression (Inoue, T. (826) 306)

Dopamine; Striatum; Substantia nigra; Methamphetamine; Neurotrophic factor; In vivo microdialysis (Cass, W.A. (827) 104)

Immunohistochemistry; Trigeminal ganglion; Trigeminal sensory nucleus; Man; SP; CGRP; trkA (Quartu, M. (847) 196)

GDNF mRNA expression
MPTP; GDNF; Competitive RT-PCR (Inoue, T. (826) 306)

GDNFR-α
Amyotrophic lateral sclerosis; RET; mRNA; Spinal cord motor neuron (Mitsuma, N. (820) 77)

Gender
Cerebral cortex; Magnetoencephalography; Aging; Sex; SEF; SEP; Evoked response (Huttunen, J. (818) 196)

Parkinson's disease; Neurotoxin; Basal ganglia; Neurogenetics (Hamre, K. (828) 91)

Astrocyte; Chemokine; Gene disruption; Nitric oxide synthase-2 (Loihl, A.K. (830) 155)

Gender differences
Extracellular serotonin; Estrous cycle differences; Reuptake; Terminal autoreceptors (Maswood, S. (831) 146)

Gender effect
Olfaction; Smell; Odor; Functional magnetic resonance imaging; Brain mapping; Cortex (Yousem, D.M. (818) 480)

Gender-related difference
Persistent pain; Formalin test; Mouse (Kim, S.J. (829) 185)

Gender-specific nicotine effect
Adolescence; Membrane protein; Nicotine; Nicotinic cholinergic receptor (Trauth, J.A. (851) 9)

Gene
Antisense; Opioid growth factor receptor; ζ-Opioid receptor; Rat; cDNA; mRNA (Zagon, I.S. (849) 147)

Gene deletion
κ-Knockout; Knockout mouse; KOR gene; Opioid receptor; μ-Receptor; δ-Receptor; κ-Receptor; Autoradiography (Slowe, S.J. (818) 335)

Gene disruption
Astrocyte; Chemokine; Gender; Nitric oxide synthase-2 (Loihl, A.K. (830) 155)

Gene expression
Cerebral ischemia; Immediate early gene; Neuronal death; Hippocampus; JunB-glial fibrillary acidic protein (Whitfield, P.C. (818) 450)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Enzymatic activity; Progesterone; Quail brain; Reverse transcription-polymerase chain reaction (Ukena, K. (818) 536)

Steroid 5α-reductase mRNA; One-step RT-PCR; Serum deprivation; Rat C6 glioma cell (Morita, K. (830) 179)

Ca^{2+}/calmodulin-dependent protein kinase; Doublecortin (Engels, B.M. (835) 365)

Inhibin; Follistatin; Survival; Rescue (Wu, D.D. (835) 369)

Generalized tonic–clonic convulsion
Ethacrynic acid; c-*fos*; Nerve growth factor; Seizure susceptibility; Parvalbumin (Suzukawa, J. (834) 89)

Genetic absence epilepsy rats of Strasbourg (GAERS)
Field potential; Epileptiform activity; CA1 area; Hippocampus; Paired pulse (Armand, V. (841) 62)

Genetically epilepsy-prone rat
Audiogenic seizure; Deep layers of superior colliculus; Seizure network; Startle; Habituation (Faingold, C.L. (815) 250)

Audiogenic seizure; Superior colliculus; Seizure network; Pontine reticular formation; Inferior colliculus (Faingold, C. (821) 392)

Genetic hypertension
Angiotensin II; Area postrema; Baroreceptor reflex; Sympathetic nervous system (Matsumura, K. (850) 166)

Genetics
Antinociception; Selective breeding; Solution hybridization (Kest, B. (816) 381)

Gene transfer
Molecular analysis; Behavior; Herpes simplex vectors (Simonato, M. (835) 37)

Genistein
Tyrosine kinase; Calcium current; Whole-cell patch-clamp; Hippocampal slice (Potier, B. (816) 587)

Genitourinary
Micturition; Parasympathetic; Electrical stimulation; Neural prosthesis (Grill, W.M. (836) 19)

Genomic imprinting
Chromogranin; Processing; GAIPIRRH; 5-Hydroxytryptamine-moduline (Lovisetti-Scamihorn, P. (829) 99)

Gepirone
Receptor; Serotonin; Penile reflex; Copulatory behavior; Buspirone; DPAT; BMY-7378 (Rehman, J. (821) 414)

Gerbil
Glycine site antagonist; GV150526A; L-701; 324; ACEA1021; LY293558; Cerebral ischaemia; Neuroprotection (Hicks, C.A. (819) 65)

Rat; Parvocellular paraventricular nucleus; Substance P; Immunohistochemistry; Dehydration (Kang, T.-C. (820) 101)

Global ischaemia; Ascorbic acid; Neuroprotection; Striatum; Rat; Hippocampus; Dopamine (Stamford, J.A. (835) 229)

8-OHdG; Oxidative DNA damage; Ischemia; Immunohistochemistry; Hippocampus (Won, M.H. (836) 70)

Brain ischemia; Glycemia; HSP_{72}; Neuronal damage; Astrogliosis (Garnier, P. (836) 245)

Delayed neuronal death; DNA fragmentation; 2-Deoxy-D-glucose; Hyperthermia (Hara, A. (840) 167)

Medial superior olive; Superior paraolivary nucleus; Intracellular labeling; Prelabeling; Tissue slice (Kuwabara, N. (846) 59)

Cytochrome *c*; Cyclosporin A; Delayed neuronal cell death (Nakatsuka, H. (849) 216)

GFAP
Astrocyte; Inflammation; Injury; Enteric glia; Schwann cell (Sofroniew, M.V. (835) 91)

Focal cerebral ischemia; TGF-β1; Cytokine; c-*fos*; hsp70; MK-801; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

Fenfluramine; Serotonin; Body temperature (Stewart, C.W. (839) 279)

Three-dimensional image analysis; Triple fluorescent labeling; Cerebral microvascular plasma perfusion; MAP2; Embolic stroke; Laser-scanning confocal microscopy (Zhang, Z.G. (844) 55)

GFRα-1
Ret; Immunoreactivity; Focal ischemia; Middle cerebral artery occlusion (Kitagawa, H. (834) 190)

GH_3 cell
Muscarinic receptor; Ca^{2+} oscillation; Pertussis toxin; GTP binding protein (Kushmerick, C. (851) 39)

GH3 cells
Hydrogen oxide; Arachidonic acid; Cytosolic phospholipase A_2; Apoptosis; EGF (Yasuda, Y. (850) 197)

GHRH
Sleep; IGF-1; Growth hormone; Somatostatin; Rats; Rabbits; EEG (Obál Jr., F. (818) 267)

GHRH-ir neuron
Sex difference and differentiation; SS-ir neuron; Morphometry; Immunohistochemistry; Hypothalamus (Nurhidayat, (821) 309)

Ginkgo biloba
D-Amphetamine; Behavioral sensitization; Glucocorticoid receptor; Quantitative autoradiography; Hippocampus (Trovero, F. (818) 135)

Ginkgolide
β Amyloid; Neurotoxicity; Vitamin E; Apoptosis; Cell death (Yao, Z.-X. (847) 203)

GIRK
Corticosteroid; Corticosterone; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

GLAST
Glutamate transporter; Müller glia; Uptake regulation; Transport modulation; Phorbol ester; Protein kinase C (González, M.I. (831) 140)

Knockout mice; Kindling; Pentylenetetrazole; Secondary generalized epilepsy; Primary generalized epilepsy (Watanabe, T. (845) 92)

Glia
Antidepressant; Depression; Monoamine transporter; Serotonin uptake; Norepinephrine uptake; Astrocyte (Neary, J.T. (816) 358)

Brain-derived neurotrophic factor; Immunohistochemistry; Monkey brain; Neuron (Kawamoto, Y. (821) 341)

Neuron; mRNA; Fetal; Postnatal (Devaskar, S.U. (823) 113)

Mechanical allodynia; Inflammation; Cytokines; Formalin; Zymosan (Sweitzer, S.M. (829) 209)

Hypothalamus; Sleep; Immune response; Cytokine; Infections of the nervous system; African sleeping sickness (Chianella, S. (832) 54)

TNF-α; Immunoelectron Microscopy; Hippocampus; Pyramidal Neuron (Tseng, M.T. (833) 121)

Mouse; Single-cell RT-PCR; Patch-clamp recording (Schmidt, K. (843) 145)

Glutamate transporter; Non-competitive inhibition; Energy metabolism; Glucose utilization (Debernardi, R. (850) 39)

Glial cell
Cytoskeleton; Microtubule; Protein phosphorylation; Sciatic nerve; Axotomy (Ma, D. (823) 141)

Glial cell line-derived neurotrophic factor
Parkinson's disease; Neurotrophic factor; Neuroprotection; Neural transplantation (Yurek, D.M. (845) 21)

Glial cell line derived neurotrophic factor
6-Hydroxydopamine; Mesencephalic culture; Dopamine neuron (Kramer, B.C. (851) 221)

Glial fibrillary acidic protein
Metallothionein-I; Methylmercury; Astrocyte; Astrocytoma (Yao, C.P. (818) 414)

Oxytocin; Vasopressin; Immunocytochemistry; Microtubule; Cytoskeleton; Plasticity; Shape conversion (Matsunaga, W. (829) 7)

Astrocyte; Complete Freund's adjuvant; Extravasation; IgG; Mac-1; Microglia (Rabchevsky, A.G. (832) 84)

CNS gliosis; Iminodipropionitrile neurotoxicity; Nitrile neurotoxicity; Retinal degeneration and gliosis; Sensory toxicity (Seoane, A. (833) 258)

Circadian rhythm; Suprachiasmatic nucleus; Inositol 1,4,5-trisphosphate receptor; Rat brain (Hamada, T. (838) 131)

Suprachiasmatic nucleus; Acute ethanol treatment; Intoxication sign; Calbindin D28k (Satriotomo, I. (847) 124)

D2 receptor; p38 MAPK; Signal transduction; Mitogenesis; Astrocyte; C6 glioma cell; Reactive oxygen species (Luo, Y. (850) 21)

Glial fibrillary acidic protein (GFAP)
Astrocyte; Vimentin; HSP27; Protein phosphorylation; Calcium (Gottfried, C. (833) 142)

Glial scar
Cadherin; Astrocyte; CNS injury; Reactive gliosis; Cell adhesion; Regeneration (Vázquez-Chona, F. (838) 45)

Glibenclamide
Focal ischemia; ATP-dependent potassium channel; Cerebellar fastigial nucleus; Pre-conditioning; Stimulation (Golanov, E.V. (842) 496)

Glioblastoma
Calcium; Proliferation; Patch-clamp (Chattopadhyay, N. (851) 116)

Glioblastoma cell line
Receptor tyrosine kinase; Eph receptor; Cell proliferation (Bruce, V. (821) 169)

Glioma
Cyclosporin A; FK506; Nitric oxide; iNOS; C6; Rat (Trajković, V. (816) 92)

Blood–brain barrier; Brain tumor; Edema; Horseradish peroxidase; Vascular endothelial growth factor (Book, A.A. (833) 173)

Glioma cells
Nitric oxide; Nitric oxide synthase; Arginiosuccinate synthetase; Citrulline–NO cycle (Zhang, W.Y. (849) 78)

Gliosis
Neurofibromatosis; *NF1*; Astrocyte; Learning disability; Ras; Mouse; Neurofibromin (Rizvi, T.A. (816) 111)

Global cerebral ischemia
Albumin; Neuroprotection; Stroke (Belayev, L. (845) 107)

Global complete cerebral ischemia
Streptozotocin-induced diabetes; Lactic acidosis; Intracellular pH; High-energy phosphate; Selective neuronal vulnerability (Hoxworth, J.M. (821) 467)

Global ischaemia
Ascorbic acid; Neuroprotection; Striatum; Gerbil; Rat; Hippocampus; Dopamine (Stamford, J.A. (835) 229)

Global ischemia
PGE_2-induced hyperthermia; Head (brain) cooling; Neural damage (Thornhill, J. (825) 36)

4-Aminopyridine; Synaptic transmission; Potassium channel; Electrophysiology (Zhang, L. (832) 31)

Globoid cell leukodystrophy
Demyelination; Forskolin; Galactocerebroside; Proliferation; Differentiation (Yamada, H. (816) 390)

Globus pallidus
Antisense; Potassium ATP channel; 6-Hydroxydopamine; Kir6.2; Apomorphine (Lamensdorf, I. (818) 275)

Immediate early gene; c-*fos*; Striatum; Entopeduncular nucleus; Subthalamic nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

Hypothalamus; Neurotensin; Ventral pallidum; Tandem mass spectrometry; Micro-electrospray; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Glomus cell
Carotid body; Intracellular calcium; Membrane potential; Hypoxia; Cobalt; Calcium-selective microelectrode; Indo-1/AM (Zhang, X.Q. (818) 118)

Glossopharyngeal nerve
Nucleus tractus solitarius; Spinal nucleus of the trigeminal nerve; Chemoreceptor; Baroreceptor; Respiration; Arousal (Blessing, W.W. (816) 405)

Glucocorticoid
Corticosteroid; GIRK; Corticosterone; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid (Muma, N.A. (839) 331)

Corticosteroid; GIRK; Corticosterone; Hippocampus; Rat; Adrenalectomy; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Wobbler mouse; GAP-43 mRNA; 21-Aminosteroid; Amyotrophic lateral sclerosis; Spinal cord; In situ hybridization (González Deniselle, M.C. (841) 78)

TRH; Hypothalamus; Phorbol ester; *N*-Ethylmaleimide; AP-1; CREB (Luo, L.-G. (841) 189)

Dexamethasone; Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

HSP27; Stress; Protein synthesis; Heat shock; Cerebellum (Barr, C.S. (847) 9)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Glucocorticoid receptor
Corticotropin-releasing factor; Locus coeruleus; Norepinephrine; Barrington's nucleus; Central nucleus of the amygdala; Bed nucleus of the stria terminalis (Lechner, S.M. (816) 17)

Serum deprivation; Dexamethasone; Cytotoxicity; Necrosis; Rat C6 glioma cell (Morita, K. (816) 309)

D-Amphetamine; Behavioral sensitization; Ginkgo biloba; Quantitative autoradiography; Hippocampus (Trovero, F. (818) 135)

Development; Mineralocorticoid receptor; Limbic system; Hypothalamo-pituitary-adrenal (HPA) axis; Nutrition; Fetus; Guinea pig (Lingas, R. (846) 236)

Dexamethasone; Glucocorticoid; Development; Mineralocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

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Glucocorticoid-receptor deficiency
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Glucose
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Pulsatile LH secretion; GnRH pulse generator; Insulin; Hypoglycemia; Female rat (He, D. (820) 71)

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Hippocampus; Synaptic plasticity; Long-term potentiation; Paired-pulse; Facilitation (Kamal, A. (824) 238)

Cerebral ischemia; Glutamate; Amino acid; Arachidonic acid; Free fatty acid; Hyperglycemia; Cerebral cortex; Rat (Phillis, J.W. (837) 177)

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Glucose deprivation
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Glucose-6-phosphate dehydrogenase
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GLUT2
Hexose transporter; GLUT1; GLUT3; Human fetal brain; Blood–brain barrier; Choroid plexus; Brain capillary (Nualart, F. (824) 97)

GLUT3
Hexose transporter; GLUT1; GLUT2; Human fetal brain; Blood–brain barrier; Choroid plexus; Brain capillary (Nualart, F. (824) 97)

Glut1
Glut3; Immunostaining; Local cerebral glucose utilization; Autoradiography (Duelli, R. (831) 254)

Glut3
Glut1; Immunostaining; Local cerebral glucose utilization; Autoradiography (Duelli, R. (831) 254)

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Neurotoxicity; Mitochondrial depolarization; Rhodamine 123; Neurons (Almeida, A. (816) 580)

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Hippocampal slice; Transporter; Depolarization; Immature brain (Katsumori, H. (819) 160)

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NMDA; Nitric oxide; Nociception; Spinal cord; Voltammetry (Rivot, J.-P. (821) 101)

Xenopus oocyte; Pharmacology; Electrophysiology; Concanavalin A; Cyclothiazide (Nijholt, I. (821) 374)

AMPA; NMDA; Vesicular transmitter release (Gao, F. (821) 487)

GABA; Striatum; Integration; Modulation (Kiyatkin, E.A. (822) 88)

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Ischemia; *N*-methyl-D-aspartate; Neuronal death; Ganglion neurons (Yoon, Y.H. (823) 33)

Noradrenaline; Locus coeruleus; Prefrontal cortex; GABA; Microdialysis (Kawahara, Y. (823) 42)

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Hippocampus; Pb^{2+}; Electrophysiology; GABA; Transmitter release (Braga, M.F.M. (826) 22)

N-Methyl-D-aspartate; Neurotoxicity; Apoptosis; Neuroprotection; Neurotrophins (Rocha, M. (827) 79)

Cerebral ischemia; Amino acid release; Swelling; Volume regulation; GABA; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

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Cerebral ischemia; Amino acid; Arachidonic acid; Free fatty acid; Glucose; Hyperglycemia; Cerebral cortex; Rat (Phillis, J.W. (837) 177)

Squid giant synapse; Receptor (Di Cosmo, A. (839) 213)

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Volume regulation; Taurine; Phospholipase A_2; Protein kinase C (Estevez, A.Y. (844) 1)

NMDA; Pregnancy; Rat; Seizure; Epilepsy (Standley, C.A. (844) 10)

ACh release; Dopamine; GABA release; NMDA; Striatum; Parkinson's disease (Hanania, T. (844) 106)

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Eicosapentaenoic acid; Neuronal excitability; Seizure; Pentylenetetrazole (Xiao, Y.-F. (846) 112)

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Melittin; Phospholipase A_2; Amino acid; Free fatty acid; Arachidonic acid; Cerebral cortex (Phillis, J.W. (847) 270)

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Glutamate binding
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Glutamate decarboxylase
Lateral lemniscal nuclei; Dynorphin; Corticotropin-releasing factor; Retrograde fluorescent labeling; Acoustic stimulation (Ueyama, T. (849) 220)

Glutamate receptor
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Dopamine; Substantia nigra (Fan, X.-D. (850) 79)

Glutamate receptor channel
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Glutamate release
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Circadian rhythm; Suprachiasmatic nucleus; Substance P; NMDA receptor antagonist; Firing rhythm (Hamada, T. (836) 190)

Adenosine; A1 receptor; Trout brain synaptosome (Poli, A. (837) 46)

Excitotoxicity; Terfenadine (Díaz-Trelles, R. (842) 478)

Glutamate reuptake blocker
L-PDC; Excitatory amino acid; Nucleus accumbens; Locomotor activity (Kim, J.-H. (819) 165)

L-Glutamate transport
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Glutamate transporter
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Glia; Non-competitive inhibition; Energy metabolism; Glucose utilization (Debernardi, R. (850) 39)

Glutamate uptake
Synaptosome; Spider venom; *Phoneutria nigriventer*; Toxin (Mafra, R.A. (831) 297)

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Glutamic acid decarboxylase activity
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Glutamine
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Glutamine synthetase
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γ-Glutamyl-containing peptide
Acivicin; Anoxia/aglycemia; Cysteine sulfinate; Glutathione metabolism (Li, X. (815) 81)

Glutathione
Indole acids; Lipid peroxidation; Neurodegeneration; Neuroprotection; Striatum (Poeggeler, B. (815) 382)

L-Buthionine sulfoximine; Cerebellar granule neuron; Reactive oxygen intermediate; Mitochondria; Apoptosis (Wüllner, U. (826) 53)

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Antioxidant; Catalase; Superoxide dismutase (SOD); Neuroprotection; Free radical; PD (Iida, M. (838) 51)

Glutathione homeostasis
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Glutathione metabolism
γ-Glutamyl-containing peptide; Acivicin; Anoxia/aglycemia; Cysteine sulfinate (Li, X. (815) 81)

Glutathione peroxidase
Sodium cyanate; GSH; GSSG; Glutathione homeostasis; Glutathione reductase; Neurotoxicity; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

Dietary selenium; Methamphetamine-induced neurotoxicity; Dopamine; Cu,Zn-superoxide dismutase; Ratio of reduced glutathione/oxidized glutathione; Malondialdehyde; Oxidative stress (Kim, H.-C. (851) 76)

Glutathione reductase
Sodium cyanate; GSH; GSSG; Glutathione homeostasis; Glutathione peroxidase; Neurotoxicity; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

Glycation
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Glycemia
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Glycerophosphocholine
Glycerophosphodiester; Glycerophosphoethanolamine; Lysophospholipase (Fallbrook, A. (834) 207)

Glycerophosphodiester
Glycerophosphocholine; Glycerophosphoethanolamine; Lysophospholipase (Fallbrook, A. (834) 207)

Glycerophosphodiesterase
Phospholipid; Lysophospholipid acyltransferase; Lysophospholipase; Bipolar affective disorder (Ross, B.M. (821) 407)

Glycerophosphoethanolamine
Glycerophosphodiester; Glycerophosphocholine; Lysophospholipase (Fallbrook, A. (834) 207)

Glycine
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Glycine site antagonist
GV150526A; L-701; 324; ACEA1021; LY293558; Cerebral ischaemia; Gerbil; Neuroprotection (Hicks, C.A. (819) 65)

cGMP
Nitric oxide; Nitric oxide synthase; Amyotrophic lateral sclerosis; Superoxide dismutase; Cerebral cortex; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

Cyclic nucleotide-gated channel; cAMP; Thermosensation; Chemosensation; *Caenorhabditis elegans* (Komatsu, H. (821) 160)

Nitric oxide; cAMP; Hair cell; Vestibular; Cuttlefish (Tu, Y. (845) 35)

cAMP; Tau protein; Cerebrospinal fluid; Alzheimer's disease (Martínez, M. (846) 265)

G_{12} mRNA
Epilepsy; G protein; G_s mRNA; Kindling; Signal transduction system (Iwasa, H. (818) 570)

G_s mRNA
Epilepsy; G protein; G_{12} mRNA; Kindling; Signal transduction system (Iwasa, H. (818) 570)

GnRH
Galanin; Gonadotropin-releasing hormone; Luteinizing hormone-releasing hormone; Estrous cycle; Immunohistochemistry (Rajendren, G. (821) 270)

GABA; Hypothalamus; GT1–7 cell (King, T.S. (824) 56)

GnRH pulse generator
Pulsatile LH secretion; Glucose; Insulin; Hypoglycemia; Female rat (He, D. (820) 71)

Golden hamster
Vasopressin; Scent marking behavior; Olfactory communication (Ferris, C.F. (832) 1)

Goldfish
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Colchicine; Retinal explant; Axonal transport; Tubulin; Vision (Dybowski, J.A. (842) 62)

Orexin; Feeding behavior (Volkoff, H. (846) 204)

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G protein; Herpes simplex virus; Differential display (Wilkinson, R. (831) 311)

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(−) Deprenyl; Monkey prefrontal cortex; Layer III pyramidal neuron; Dendritic arborization; Neural plasticity (Shankaranarayana Rao, B.S. (821) 218)

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Golgi tendon organ afferent
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Gonadal
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Gonadotrophin-releasing hormone
Ketamine; Anesthesia; Luteinizing hormone; Pulse generator; Electrophysiology; Thermoregulation; Telemetry (Goubillon, M.-L. (841) 197)

N-Methyl-D-aspartate receptor; Insulin-like growth factor-1; Insulin-like growth factor-binding protein 2; Insulin-like growth factor-binding protein 3; GPE or (1–3)IGF-1 (Bourguignon, J.-P. (847) 247)

Gonadotropin releasing hormone
LHRH; Immunocytochemistry; Puberty (Richardson, H.N. (817) 232)

Gonadotropin-releasing hormone
Galanin; GnRH; Luteinizing hormone-releasing hormone; Estrous cycle; Immunohistochemistry (Rajendren, G. (821) 270)

Migration; Olfactory system; Nervus terminalis; Olfactory placode; Human brain (Kim, K.H. (826) 220)

Mast cell; Mating; Velum interpositum; Thalamus (Yang, M.-F. (846) 30)

gp120
Peptidergic neuron; Neurotrophin; SRIF; Neuropeptide Y; BDNF; Brain (Barnea, A. (815) 349)

Feline immunodeficiency virus; Neurotoxicity; Glutamate (Bragg, D.C. (816) 431)

Vasoactive intestinal peptide; Peptide T; Chemokine; Acquired immunodeficiency syndrome; Secretion (Brenneman, D.E. (838) 27)

gp130
Tau; Interleukin-6 receptor complex; Soluble receptor; Biological marker; ELISA; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

GPE or (1–3)IGF-1
Gonadotrophin-releasing hormone; *N*-Methyl-D-aspartate receptor; Insulin-like growth factor-1; Insulin-like growth factor-binding protein 2; Insulin-like growth factor-binding protein 3 (Bourguignon, J.-P. (847) 247)

GPI 1046
Morris water maze; Aging; Immunophilin (Sauer, H. (842) 109)

G-protein
Brain; Chronic EtOH; Cannabinoid receptor; [^{35}S]GTPγS (Basavarajappa, B.S. (815) 89)

Presynaptic GABA-B receptor; In vitro slice; Intracellular recording; Pertussis toxin (Phelan, K.D. (847) 308)

Alzheimer's disease; Adenylyl cyclase; Signal transduction; Autoradiography; [^{3}H]Forskolin; Guanylyl-5′-imidodiphosphate; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

G protein
Opioid receptor; Phospholipase C; Cytosolic Ca^{2+}; Concentration; Manganese entry (Song, S.-L. (818) 316)

Epilepsy; G_{i2} mRNA; G_s mRNA; Kindling; Signal transduction system (Iwasa, H. (818) 570)

Acetylcholine receptor; Nootropic drug; Nefiracetam; PC12 cell; Protein kinase (Oyaizu, M. (822) 72)

Golf; Herpes simplex virus; Differential display (Wilkinson, R. (831) 311)

Olfaction; Olfactory bulb; Accessory olfactory bulb; Olfactory neuron; Chemotopic projection (Wekesa, K.S. (837) 117)

G-protein coupled receptor
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GR205171
Tachykinin NK_1 receptor antagonist; Substance P; Vomiting; Retching; Salivation; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

Gracile nucleus
Microglia; OX-42; OX-6; Spinal cord; Formalin; Rat (Fu, K.-Y. (825) 59)

Granule cell
Parallel fiber; Aging; Cerebellum; Cerebellar (Huang, C.-m. (840) 148)

Granule cell layer
Extracellular ATP; Ecto-ATPase; Cerebellum; Synaptic transmission; Signal transduction (Zinchuk, V.S. (815) 111)

Grb2
Alzheimer's disease; Cell cycle; Signal transduction; SOS-1 (McShea, A. (815) 237)

RSK; Sos; Phospholipase A_2; Shc; MAP kinase; Post-synaptic density (Suzuki, T. (840) 36)

GRB2
Insulin; SHC; Insulin receptor; Brain; Cerebellum (De L.A. Fernandes, M.L. (826) 74)

Green fluorescent protein
Adeno-associated virus; Antisense; Disease-modeling; GAP-43 (Klein, R.L. (832) 136)

Adeno-associated virus; Brain-derived neurotrophic factor; Locomotor behavior; Parkinson's disease; Substantia nigra (Klein, R.L. (847) 314)

Groggy rat
Phosphorylated tau; Anti-phosphorylated tau antibody; Age-related change; Facial nucleus; Lateral cerebellar nucleus (Takeuchi, I.K. (831) 292)

Grooming
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Grooming behavior
5,7-Dihydroxytryptamine; Hippocampus; NMDA antagonist; Scopolamine (Robertson, B.J. (838) 234)

Group I
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Group I pathway
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Growth / differentiation factor 5
Parkinson's disease; Neuroprotection; 6-Hydroxydopamine; Dopamine (Sullivan, A.M. (818) 176)

Growth factor
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mRNA; Postnatal; Phosphorylation; Vitamin K-dependent; Mitogen (Prieto, A.L. (816) 646)

Regeneration; Neurogenesis; Olfactory system; Rat; Zinc sulfate (Herzog, C. (849) 155)

Growth hormone
Sleep; IGF-1; GHRH; Somatostatin; Rats; Rabbits; EEG (Obál Jr., F. (818) 267)

GRP
ACTH; Corticosterone; Hypothalamus–pituitary–adrenal axis; GRP antagonist; Extracelullar calcium (Garrido, M.M. (828) 20)

GRP antagonist
GRP; ACTH; Corticosterone; Hypothalamus–pituitary–adrenal axis; Extracelullar calcium (Garrido, M.M. (828) 20)

GSH
Sodium cyanate; GSSG; Glutathione homeostasis; Glutathione reductase; Glutathione peroxidase; Neurotoxicity; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

GSSG
Sodium cyanate; GSH; Glutathione homeostasis; Glutathione reductase; Glutathione peroxidase; Neurotoxicity; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

GT1–7 cell
GnRH; GABA; Hypothalamus (King, T.S. (824) 56)

GTPase
Adenylate cyclase; Amyloid β-peptide; Alzheimer's disease (Soomets, U. (850) 179)

GTP binding protein
GH_3 cell; Muscarinic receptor; Ca^{2+} oscillation; Pertussis toxin (Kushmerick, C. (851) 39)

Guanidino compound
Na^+; K^+-ATPase; Hyperargininemia; *N*-Acetylarginine; Homoarginine; Argininic acid (Da Silva, C.G. (838) 78)

Guanylate cyclase
Ventrobasal thalamus; Lateral geniculate nucleus; Nitric oxide; Sensory system; Cyclic GMP (Shaw, P.J. (833) 272)

Guanylyl-5′-imidodiphosphate
Alzheimer's disease; Adenylyl cyclase; G-protein; Signal transduction; Autoradiography; [^{3}H]Forskolin; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

Guinea pig
Distal colon; Submucous plexus; 5-Hydroxytryptamine; Nitric oxide; Immunocytochemistry (Kadowaki, M. (831) 288)

Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo-pituitary-adrenal (HPA) axis; Nutrition; Fetus (Lingas, R. (846) 236)

Dexamethasone; Glucocorticoid; Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus (Dean, F. (846) 253)

Glucocorticoid receptor; RU38486; Osmotic pump; Post-rotatory nystagmus (Shimogori, H. (851) 258)

Guinea pigs
Hippocampal slice; Epilepsy models; Prediction; Correlation dimension (Widman, G. (836) 156)

Gustatory
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Gut
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GV150526A
Glycine site antagonist; L-701; 324; ACEA1021; LY293558; Cerebral ischaemia; Gerbil; Neuroprotection (Hicks, C.A. (819) 65)

GYKI 52466
Excitatory amino acid; Cerebral blood flow (Sinha, A.K. (842) 230)

Gyrus dentatus
Angiotensin II receptor expression; In situ hybridization; [^{125}I]Sar^1-Ang II; Receptor autoradiography; Hypoxia; Cerebral blood flow; Hippocampus (Häuser, W. (817) 34)

H

HA-966
Scopolamine; FK960; Regional cerebral blood flow; Somatosensory stimulation; Positron emission tomography; Monkey (Tsukada, H. (832) 118)

Habenula
Prenatal; Cocaine; Neurotoxicity; Degeneration (Murphy, C.A. (851) 175)

Habituation
Audiogenic seizure; Deep layers of superior colliculus; Seizure network; Startle; Genetically epilepsy-prone rat (Faingold, C.L. (815) 250)

Plasticity; Cochlear nuclei; Learning; Memory (Kandiel, A. (839) 292)

Carbon monoxide; Prenatal exposure; Working memory; Rat offspring (Giustino, A. (844) 201)

Hair cell
Nitric oxide; cGMP; cAMP; Vestibular; Cuttlefish (Tu, Y. (845) 35)

Vestibular periphery; Muscarinic receptor; Quinuclidinyl benzilate; Autoradiography (Drescher, D.G. (845) 199)

Hallucinogen
Apical dendrite; Brain slice; Sr^{2+}; Synaptotagmin III; Whole-cell recording (Aghajanian, G.K. (825) 161)

Halothane
Volatile anesthetic; Isoflurane; Ca channel; Ca current; Xenopus oocyte (Kamatchi, G.L. (831) 85)

Halothane anesthesia
Muscle spindle; Rabbit; Trigeminal system; Firing pattern; Classification (Kato, T. (833) 1)

Hamster
Suprachiasmatic; PKC; *Arvicanthis*; Circadian; Vasopressin; Signal transduction (Bult, A. (816) 190)

Retinal ganglion cell; Regeneration; Sprouting; Peripheral nerve (Lai, M.Y. (823) 241)

Handedness
Hand preference; Motor cortex; Human asymmetry; Laterality (Triggs, W.J. (835) 324)

Hand preference
Handedness; Motor cortex; Human asymmetry; Laterality (Triggs, W.J. (835) 324)

Harmaline
Olivocerebellar pathway; Spatial learning; Spatial memory; Rat (Meignin, C. (824) 277)

HB-EGF
Hypoxic/ischemic; Neonate; NMDA; Neuroprotection (Tanaka, N. (827) 130)

HCHWA-D
Amyloid β precursor protein; Cerebral amyloid angiopathy; In situ hybridization; Alzheimer's disease (Natté, R. (828) 179)

HDB
Olfactory cortex; Voltage-sensitive dye; MCPO; In vivo (Rosin, J.-F. (820) 105)

[^{3}H]-Diprenorphine
Juvenile isolation; Social play behavior; Play period; Social interaction test; Autoradiography; Opioid receptor mapping (Van den Berg, C.L. (830) 16)

Headache
Cat; Trigeminal; Pain; Time (Hoskin, K.L. (824) 133)

Spreading cortical depression; Magnetoencephalography; Electrocorticography; Electroencephalography; Migraine (Bowyer, S.M. (843) 71)

Spreading cortical depression; Migraine; Magnetoencephalography; Electroencephalography; Electrocorticography; Swine; Pig (Bowyer, S.M. (843) 79)

Head (brain) cooling
Global ischemia; PGE_2-induced hyperthermia; Neural damage (Thornhill, J. (825) 36)

Hearing
Thalamus; Cerebral cortex (Cetas, J.S. (830) 203)

Heart
Kidney; Liver; Intestine; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Kidney; Liver; Myocardial infarction; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Heart, plasma
Ascorbate; α-Tocopherol; Brain; Liver (Martin, A. (845) 50)

Heart rate
Rostral ventrolateral medulla; Caudal ventrolateral medulla; Arterial blood pressure; Glutamate; GABA (Freda, B.J. (828) 60)

Opioid receptor-like 1; Blood pressure; Circulation; Opiate; Enkephalin; NC-NH_2; Naloxone (Chu, X. (829) 134)

Nitric oxide (NO); Blood pressure; Anteroventral third ventricle (AV3V) (Lewis, S.J. (830) 191)

N-methyl-D-aspartate receptor; Blood pressure; Periventricular anteroventral third ventricle (Whalen, E.J. (836) 210)

Blood pressure; Electrical stimulation; Respiration; Subthalamic nucleus (Ángyán, L. (847) 130)

Heat pain
Cold pain; Anterior cingulate cortex; Opioid; Mouse (Lee, D.E. (845) 117)

Heat production
Calcitonin gene-related peptide; Ventromedial hypothalamus; Sympathetic nerve; Brown adipose tissue (Kobayashi, A. (827) 176)

Calcitonin gene-related peptide; Sympathetic nervous system; Brown adipose tissue; Ventromedial hypothalamus (Kobayashi, A. (849) 196)

Heat shock
HSP27; Glucocorticoid; Stress; Protein synthesis; Cerebellum (Barr, C.S. (847) 9)

Heat shock protein
Postsynaptic density; Molecular chaperone; Synapse; Synaptic plasticity; Immunohistochemistry (Suzuki, T. (816) 99)

Hsp70; Stress response (Brown, I.R. (821) 333)

Organotypic culture; Hippocampus; Ischaemic preconditioning; Excitotoxicity (Pringle, A.K. (845) 152)

Hypothermia; Meningitis; Glutamate; Aspartate; Neurotransmitter (Irazuzta, J.E. (847) 143)

Cross tolerance; Hyperthermia; Hypoxic ischemia; Neonate (Wada, T. (847) 299)

Heat-shock-protein
Ibogaine; Methamphetamine; Hyperthermia; Caudate nucleus; Striatum; Neurotoxicity (Yu, X. (823) 213)

HEK-293 cell
Antidepressant; Amitriptyline; $GABA_A$ receptor; $^{36}Cl^-$ influx; Recombinant WSS-1 cell (Malatynska, E. (851) 277)

Helix lucorum
SEPYLRFamide; EPYLRFamide; SEGYLRFamide; SRPYLRFamide; SKPYLRFamide; Acetylcholine; Identified neurones (Pivovarov, A.S. (821) 294)

Heme oxidation
Biliverdin reductase; Cerebral ischemia; Bilirubin; Antioxidant (Panahian, N. (850) 1)

Heme oxygenase
Glutamate; Heme oxygenase inhibitor; Blood pressure; Nucleus tractus solitarii; Carbon monoxide (Silva, C.C.S. (824) 147)

Heme oxygenase inhibitor
Heme oxygenase; Glutamate; Blood pressure; Nucleus tractus solitarii; Carbon monoxide (Silva, C.C.S. (824) 147)

Hemispherectomy
Degeneration; Subcortical; Stereology; Striatum; Saccadic system (Théoret, H. (835) 354)

Hemispheric functional asymmetry
Magnetoencephalography; Finger movement; Human cerebral cortex; Primary sensorimotor cortex (M1–S1) (Babiloni, C. (827) 234)

Hemoglobin allosteric modification
Cerebral ischemia; Rat (Sarraf-Yazdi, S. (826) 172)

Hemolytic uremic syndrome
Verotoxin receptor; Sensory neuron; Fabry's disease (Ren, J. (825) 183)

Hemorrhage
Alzheimer's disease; β-amyloid; Blood–brain barrier; Microglia; Astrocytes (Su, G.C. (818) 105)

Hepatic leukemia factor
In situ hybridization; PAR protein; Synaptogenesis (Hitzler, J.K. (820) 1)

Hepatocyte growth factor
c-Met; Retina; Development; Competitive RT-PCR; Immunohistochemistry (Sun, W. (851) 46)

Hereditary ataxia
Cerebellum; Purkinje cell; Tyrosine hydroxylase; Immunohistochemistry (Sawada, K. (829) 107)

Herpes simplex vectors
Molecular analysis; Gene transfer; Behavior (Simonato, M. (835) 37)

Herpes simplex virus
Golf; G protein; Differential display (Wilkinson, R. (831) 311)

Heterologous expression
$GABA_C$ receptor; Rho subunit; Subunit assembly (Enz, R. (846) 177)

Hexose transporter
GLUT1; GLUT2; GLUT3; Human fetal brain; Blood–brain barrier; Choroid plexus; Brain capillary (Nualart, F. (824) 97)

(*S*)-[^{3}H]-5-Fluorowillardiine
α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Nucleus tractus solitarius; Nodose ganglion; Hypertension; Autoradiography (Ashworth-Preece, M.A. (834) 186)

[^{3}H]Forskolin
Alzheimer's disease; Adenylyl cyclase; G-protein; Signal transduction; Autoradiography; Guanylyl-5′-imidodiphosphate; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

HGF / SF
c-*met*; tPA; In situ hybridization; Cerebral cortex; Hippocampus (Thewke, D.P. (821) 356)

High-energy phosphate
Global complete cerebral ischemia; Streptozotocin-induced diabetes; Lactic acidosis; Intracellular pH; Selective neuronal vulnerability (Hoxworth, J.M. (821) 467)

High-fat diet
Neuropeptide Y; Proopiomelanocortin; Diet-induced obesity; Hypothalamus (Bergen, H.T. (851) 198)

High K^+
Presynaptic blocker; Neurotransmitter; Intracerebral microdialysis; Ca^{2+}-dependent (Shi, Y.-L. (850) 173)

High performance liquid chromatography
Endogenous morphine; Invertebrate nervous system; Invertebrate immune system; Trauma response; Immunohistochemistry; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

High resolution EEG
Gating effect; Somatosensory evoked cortical responses; Executed complex sequential finger movements (Rossini, P.M. (843) 161)

Hippocampal
Magnesium; Neuronal culture; Phosphatase; Phosphorylation; Seizure (Blair, R.E. (851) 54)

Hippocampal CA1
Cardiac arrest; Cerebral ischemia; Diltiazem; MK-801; Neuronal damage; Neuroprotection; Synergism (Li, M.M. (826) 44)

Gamma wave; Medial septum; Temporal lobe seizure; Psychomotor behavior; Locomotion (Ma, J. (833) 51)

Hippocampal commissure
Corpus callosum; Anterior commissure; Cerebral cortex; Allometry; Morphometry (Bishop, K.M. (815) 358)

Hippocampal cultured slice
Mossy fiber; Recurrent excitation; Dentate gyrus (Gutiérrez, R. (815) 304)

Hippocampal formation
C-*fos*; Nociception; Rat (Funahashi, M. (827) 215)

Interneuron; Astrocyte; Electron microscopy; Septohippocampal pathway; 192 IgG-saporin (Milner, T.A. (831) 322)

In vivo microdialysis; 5-HT autoreceptors; 5-Hydroxytryptamine; Vigilance state plasticity; Raphé–hippocampal system (Mokler, D.J. (838) 95)

Hippocampal neuron
FGF; SK-N-MC; Oxidation (Mark, R.J. (830) 88)

Spectrin; Protein synthesis; Protein turnover; Cytoskeletal assembly (Sangerman, J. (849) 128)

Hippocampal neurones
Calcium channels; Hypoxia (Shkryl, V.M. (833) 319)

Hippocampal neurons
Hypoxia; Potassium currents; Oxygen measurements; Hydrosulphite (Gebhardt, C. (837) 270)

Hippocampal pyramidal neuron
LiCl; Cl^-–ATPase; Cl^--sensitive fluorescent dye (MQAE); Inositol; Intracellular Cl^- concentration (Yagyu, K. (821) 530)

Hippocampal slice
Tyrosine kinase; Genistein; Calcium current; Whole-cell patch-clamp (Potier, B. (816) 587)

Lead; Long-term depression; Range of synaptic plasticity; Rat (Zhao, W.-F. (818) 153)

Glutamate; Transporter; Depolarization; Immature brain (Katsumori, H. (819) 160)

Kainate-treated rat; Epilepsy model; Oxidative phosphorylation; Calcium cycling (Kunz, W.S. (826) 236)

Epilepsy models; Prediction; Correlation dimension; Guinea pigs (Widman, G. (836) 156)

Hippocampal slice (guinea pig)
Ammonium prepulse technique; Intracellular pH; Epilepsy; Excitability (Bonnet, U. (840) 16)

Hippocampus
NGF antibody; M1 receptor; Binding; Juvenile rat; Development (Rosati, A.M. (815) 185)

Chronic morphine; LTP; Slice; Withdrawal (Mansouri, F.A. (815) 419)

GABA; Interneuron; Astrocyte; Neocortex (Yan, X.-X. (816) 317)

Mossy cell; Subunits 2 and 3 of amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) type glutamate receptor (GluR2/3); Calretinin; Dorsoventral difference; Mouse (Fujise, N. (816) 500)

Immunocytochemistry; Electron microscopy; NR2B; Cerebral cortex; Rat (Charton, J.P. (816) 609)

Carbon monoxide poisoning; Hypoxic depolarization; Spreading depression; Place navigation; Neuroprotective effect (Koroleva, V.I. (816) 618)

Developing brain; Dentate gyrus; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry; S100β protein (Janeczko, K. (816) 628)

Angiotensin II receptor expression; In situ hybridization; [^{125}I]Sar^{1}-Ang II; Receptor autoradiography; Hypoxia; Cerebral blood flow; Gyrus dentatus (Häuser, W. (817) 34)

Hypothermia; Traumatic brain injury; Cerebral ischemia; Spatial memory; Excitotoxicity; Rat (Jenkins, L.W. (817) 132)

Apoptosis; DNA fragmentation; DNA repair; Cortical impact; Temporal profile; Rat (Kaya, S.S. (818) 23)

Anesthetic; Dentate gyrus; GABA; Olfactory cortex; Perforant path; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

D-Amphetamine; Behavioral sensitization; Glucocorticoid receptor; Ginkgo biloba; Quantitative autoradiography (Trovero, F. (818) 135)

Autoradiography; cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Alzheimer's disease; Neuropathological change; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

Cerebral ischemia; Immediate early gene; Neuronal death; Gene expression; JunB-glial fibrillary acidic protein (Whitfield, P.C. (818) 450)

Transcription; Coactivator; Cholecystokinin; Hypothalamus; Thalamus; Amygdala (Strömberg, H. (818) 510)

Memory; Diabetes; Glucose; Insulin; Muscimol; Oxotremorine; Bicuculinne; Acetylcholine (Messier, C. (818) 583)

Hypoxia; Ischemia; Ketamine; Neonatal; Rat (Spandou, E. (819) 1)

Calpain; Transient forebrain cerebral ischemia; Calpain inhibitor; Liposome (Yokota, M. (819) 8)

Hypothalamus; Paraventricular nucleus; Neural stimulus; CRH-41; Glucocorticoid receptor antagonist; Negative feedback (Feldman, S. (821) 33)

HGF/SF; c-*met*; tPA; In situ hybridization; Cerebral cortex (Thewke, D.P. (821) 356)

Cerebral ischemia; Middle cerebral artery occlusion; Circle of Willis; Mouse; Rat (Özdemir, Y.G. (822) 260)

GABA; $GABA_A$ receptor; Benzodiazepine; [^{3}H]L-655,708; [^{3}H]Ro15-1788 (Sur, C. (822) 265)

Semaphorin IV; Human brain; Immunohistochemistry; Nerve process (Hirsch, E. (823) 67)

Cortical spreading depression; Hyperthermia; Paraventricular nucleus; Unit activity; Rat (Monda, M. (824) 119)

Dextromethorphan; Neuroprotection; Kainic acid; Activator protein-1; Fos-related antigen (Kim, H.-C. (824) 125)

Transient forebrain ischemia; Synapsin-I; Mongolian gerbil (Martí, E. (824) 153)

Isolation rearing; Rat; Locomotor activity; Prepulse inhibition; Startle; Synaptophysin; Dentate gyrus; Schizophrenia (Varty, G.B. (824) 197)

Glucose; Synaptic plasticity; Long-term potentiation; Paired-pulse; Facilitation (Kamal, A. (824) 238)

Auditory-evoked potential; Multiple single-neuron recording; Auditory cortex; Medial septal nucleus; Brainstem reticular formation (Moxon, K.A. (825) 75)

Pb^{2+}; Miniature postsynaptic currents; Patch clamp; Tetrodotoxin; Transmitter release (Braga, M.F.M. (826) 10)

Pb^{2+}; Electrophysiology; GABA; Glutamate; Transmitter release (Braga, M.F.M. (826) 22)

Acetylcholine; Arachidonic acid; Neuromodulation (Almeida, T. (826) 104)

Mastication; Aging; Neuronal degeneration; Learning and memory (Onozuka, M. (826) 148)

Traumatic brain injury; Inducible transcription factor; Rat; Conditioned freezing response; Amygdala (Abrous, D.N. (826) 181)

Nootropic; Nefiracetam; Synaptic transmission; Nicotinic acetylcholine receptor; Long-term potentiation (Nishizaki, T. (826) 281)

Nitric oxide synthase; Methylene blue; Microdialysis; Rat (Volke, V. (826) 303)

rTMS; Receptor autoradiography; NMDA receptors; Serotonin uptake sites; $5\text{-}HT_{1A}$ receptors; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

Sexual dimorphism; Dentate gyrus; Androgen; Androgen insensitivity; *tfm* (Tabibnia, G. (827) 41)

Spatial learning; Aging; Corticosterone; Fischer-344 × Brown Norway rat; Memory (Hebda-Bauer, E.K. (827) 93)

Calcineurin; Ischemia; Phosphatase 2A (Morioka, M. (828) 135)

Intracellular recording; Acetylcholine; In vitro; Whole cell voltage-clamp recording (Kimura, T. (831) 175)

Entorhinal cortex; Midtemporal gyrus; Midfrontal gyrus; Polymerase chain reaction; Cerebellum (Yasojima, K. (831) 301)

Ischemia; Adenosine; Anoxia; Tolerance (Pérez-Pinzón, M.A. (833) 20)

TNF-α; Immunoelectron Microscopy; Pyramidal Neuron; Glia (Tseng, M.T. (833) 121)

Sleep; Serotonin; Rat; Microdialysis (Park, S.P. (833) 291)

Radial maze learning; Y chromosome; Mossy fiber; Mouse (Sluyter, F. (835) 68)

Global ischaemia; Ascorbic acid; Neuroprotection; Striatum; Gerbil; Rat; Dopamine (Stamford, J.A. (835) 229)

Ischemic tolerance; Nitric oxide; Mitochondria; Neuropathology (Centeno, J.M. (836) 62)

8-OHdG; Oxidative DNA damage; Ischemia; Immunohistochemistry; Gerbil (Won, M.H. (836) 70)

Acetylcholine; Monkey; Saporin; Discrimination learning; Cortex (Ridley, R.M. (836) 120)

Noradrenaline; Serotonin; Unilateral vestibular deafferentation (Zheng, Y. (836) 199)

Status epilepticus; Seizure; Topiramate; Neuroprotection; Rat (Niebauer, M. (837) 263)

Na^+,K^+ATPase; Ouabain; Spreading depression; Hypoxia; Ischemia; Brain slice (Balestrino, M. (838) 37)

Grooming behavior; 5,7-Dihydroxytryptamine; NMDA antagonist; Scopolamine (Robertson, B.J. (838) 234)

Nitric oxide; Glutamate; 7-Nitroindazole; Kainic acid; Microdialysis (Alabadí, J.A. (839) 305)

Corticosteroid; GIRK; Corticosterone; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Genetic absence epilepsy rats of Strasbourg (GAERS); Field potential; Epileptiform activity; CA1 area; Paired pulse (Armand, V. (841) 62)

Pain; TNF; Norepinephrine; α_2-Adrenergic receptor; Microinfusion (Ignatowski, T.A. (841) 70)

Estrogen; Progesterone; Seizure; Flurothyl; Entorhinal cortex (Velíšek, L. (842) 132)

Age; Senescence-accelerated mouse; Calcium pump; Protein kinase; Calbindin (Armbrecht, H.J. (842) 287)

Electrophysiology; Epileptiform activity; *Aconitum* alkaloid (Ameri, A. (842) 332)

Cyclooxygenase-2 inhibitor; Kainic acid-induced seizure; TUNEL-positive neuronal death; Prostaglandin (Baik, E.J. (843) 118)

Schizophrenia; Ketamine; Amphetamine; MK-801; NMDA; Animal model; Limbic system; Prefrontal cortex (Duncan, G.E. (843) 171)

BDNF; Hormone replacement; Estradiol; Cognition; Alzheimer's disease (Gibbs, R.B. (844) 20)

Electroconvulsive shock seizure; ECS; MES; Electroconvulsive therapy; ECT; Mossy fiber sprouting; Timm stain (Gombos, Z. (844) 28)

Hypothalamo-pituitary-adrenocortical axis; Paraventricular nucleus; Septum; Amygdala; Suprachiasmatic; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

Organotypic culture; Ischaemic preconditioning; Heat shock protein; Excitotoxicity (Pringle, A.K. (845) 152)

ICSS-experience; Fornix lesioning; Amelioration; Operant and Spatial learning (Yoganarasimha, D. (845) 246)

Nicotinic acetylcholine receptor; Nicotine; Long-term potentiation (Fujii, S. (846) 137)

Raloxifene; Estrogen; Choline acetyltransferase activity (Wu, X. (847) 98)

Intercellular adhesion molecule 1 (ICAM-1); Cerebral ischemia; Reactive astrocyte; Knockout mouse; Selective neuronal vulnerability (Kitagawa, K. (847) 166)

Dentate gyrus; Hyperactivity; Theta; Paired-pulse inhibition; GABA; Exocytosis (Steffensen, S.C. (847) 186)

Acetylcholine; Aversive conditioning; γ-Aminobutyric acid; Memory; Mouse; Retention; Septum; Serotonin (Farr, S.A. (847) 221)

Neuropeptide Y; Seizure; Cognition (Redrobe, J.P. (848) 153)

Inhibition; Modulation; Vigilance state; Dentate granule cell; Plasticity (Bronzino, J.D. (849) 45)

Neurodegeneration; TUNEL assay; Klenow assay; ISEL; Cell death (Adamec, E. (849) 67)

Electron microscopy; Ultrastructure; Dentate gyrus; Interneuron (Drake, C.T. (849) 203)

Adrenalectomy; Nerve degeneration; Apoptosis; Necrosis (Islam, A. (849) 226)

Long-term potentiation; Neurotoxicity; Polychlorinated biphenyl; Synaptic plasticity (Gilbert, M.E. (850) 87)

Superoxide; Nitric oxide; Hypothalamus; Thalamus; Suprachiasmatic nucleus (Oury, T.D. (850) 96)

Alzheimer's disease; Adenylyl cyclase; G-protein; Signal transduction; Autoradiography; [^{3}H]Forskolin; Guanylyl-5′-imidodiphosphate; Entorhinal cortex (García-Jiménez, A. (850) 104)

Neurosteroid; Anxiolytic; Lateral septum; Elevated plus-maze; Defensive burying test (Bitran, D. (850) 217)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Synaptic plasticity (Costenla, A.R. (851) 228)

Saffron; Acetaldehyde; Long-term potentiation; Dentate gyrus (Abe, K. (851) 287)

Histamine
Noradrenaline; Thioperamide; Triprolidine; Rauwolscine; Food intake; Rat (Kurose, Y. (828) 115)

Aminotetralin; Autoradiography; Catecholamine; Dopamine; Phenylaminotetralin; Sigma; Tyrosine hydroxylase (Booth, R.G. (837) 95)

Hypothalamus; Sleep; REM; Tuberomammillary; Microwire (Steininger, T.L. (840) 138)

Dura; Estradiol; Mast cell; Migraine; Neuron; Neuropeptide; Secretion; Substance P; Stress (Rozniecki, J.J. (849) 1)

Histidine
Parkinson's disease; Free radical; 1-Methyl-4-phenylpyridinium ion (MPP^+); Microdialysis (Obata, T. (817) 206)

Histochemistry
Glucose-6-phosphate dehydrogenase; Rat brain; Olfactory bulb; Periglomerular cell; Electron microscopy (Ninfali, P. (819) 150)

Corpus cavernosum; Nitroxidergic nerve; Denervation; Nitric oxide (NO) synthase (Ayajiki, K. (825) 14)

Acute stressor; Hypothalamus; Nitric oxide; Neuroendocrine; Rat (Sánchez, F. (828) 159)

Histology
Rat; Brain; Ischemia; Norepinephrine; Microdialysis (Nellgård, B.M.G. (847) 262)

Histopathology (rat)
Eigenimage; Cerebral ischemia; Magnetic resonance imaging (Jacobs, M.A. (837) 83)

HIV
AIDS; Central nervous system; Astrocytes; Receptor; Endocytosis (Hao, H.-N. (823) 24)

[^{3}H]L-655,708
GABA; $GABA_A$ receptor; Benzodiazepine; Hippocampus; [^{3}H]Ro15-1788 (Sur, C. (822) 265)

[^{3}H]L-Citrulline formation assay
Nitric oxide synthase; Postmortem human brain; Western blot analysis; Arginine; Citrulline (Blum-Degen, D. (834) 128)

[^{3}H]MK-801 binding
NMDA channel; Ferrous ion; Spermidine; Development (Ogita, K. (818) 548)

Homoarginine
Na^+; K^+-ATPase; Hyperargininemia; *N*-Acetylarginine; Argininic acid; Guanidino compound (Da Silva, C.G. (838) 78)

Homosynaptic depression
Motoneuron excitability; Soleus; Human (Komiyama, T. (826) 317)

Hormone replacement
BDNF; Estradiol; Hippocampus; Cognition; Alzheimer's disease (Gibbs, R.B. (844) 20)

Hormone secretion
Acute ethanol; Chronic ethanol; Adenosine; Hypothalamic β-endorphin neuron; cAMP production (Boyadjieva, N. (824) 112)

Horseradish peroxidase
Octavolateral center; Mesencephalon; Nerve projection; Tract tracing; Carbocyanine; Brain; Agnathan (González, M.J. (826) 83)

Blood–brain barrier; Brain tumor; Edema; Glioma; Vascular endothelial growth factor (Book, A.A. (833) 173)

Hotplate test
Analgesia; Flunarizine; Opioid receptor subtype; Verapamil (Weizman, R. (818) 187)

Hot-plate test
Nociception; Polydipsic inbred mouse; Opioid (Kamikawa, H. (846) 171)

HPA axis
Oxytocin; Hypothalamus; Adrenocorticotropin; Development; Sheep (Matthews, S.G. (820) 92)

Chronic stress; Adrenalectomy; Pituitary; Hypothalamus (Martí, O. (821) 1)

HPLC
Microdialysis; Excitatory amino acid; Inhibitory amino acid (Geddes, J.W. (831) 104)

Acetylcholine; Carotid body; Cholinergic receptor; Cholinergic stimulation; Hypoxia (Fitzgerald, R.S. (841) 53)

HPLC-EC
Dopaminergic neuron; Feedback; Hypothalamus (DeMaria, J.E. (837) 236)

H-reflex
Human; Reciprocal inhibition; Presynaptic inhibition; Long-latency inhibition; Voluntary muscle contraction (Leonard, C.T. (817) 1)

Anticipatory postural adjustment; Arm movement; Freely and backsupported posture; Vibration; Human (Kawanishi, M. (832) 13)

pH regulation
Benzolamide; CaATPase; Extracellular space; Carbonic anhydrase; Calcium channel (Tong, C.-K. (815) 373)

[^{3}H]Ro15-1788
GABA; $GABA_A$ receptor; Benzodiazepine; Hippocampus; [^{3}H]L-655,708 (Sur, C. (822) 265)

Hsp70
Heat shock protein; Stress response (Brown, I.R. (821) 333)

HSP27
Astrocyte; Glial fibrillary acidic protein (GFAP); Vimentin; Protein phosphorylation; Calcium (Gottfried, C. (833) 142)

Glucocorticoid; Stress; Protein synthesis; Heat shock; Cerebellum (Barr, C.S. (847) 9)

HSP70
Hypoxia; p38 MAP kinase; Ischemia; Astrocyte (Uehara, T. (823) 226)

hsp70
Focal cerebral ischemia; TGF-β1; Cytokine; GFAP; *c-fos*; MK-801; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

HSP_{72}
Brain ischemia; Glycemia; Neuronal damage; Astrogliosis; Gerbil (Garnier, P. (836) 245)

HSP72
Neurotrophin-3; Ischemia; MCAO; TUNEL; Caspase-3 (Zhang, W.R. (842) 211)

5-HT
8-OH-DPAT,; Suprachiasmatic nucleus; 5-HT_{1A} receptor; 5-HT_7 receptor (Duncan Jr., W.C. (815) 126)

Retinotectal pathway; Retinal lesion; Lesion-induced plasticity; Antidepressant; Serotonin reuptake inhibitor; Fluoxetine (Bastos, E.F. (824) 28)

Serotonin; Cortex; Human; 5-HT_{2A}; 5-HT_{1A} (Newberry, N.R. (833) 93)

5-HT receptor; 5-HT transporter; Hypothalamus; Diet-induced obesity (Park, S. (847) 90)

5-HT_{1A}
5-HT; Serotonin; Cortex; Human; 5-HT_{2A} (Newberry, N.R. (833) 93)

5-HT_{2A}
5-HT; Serotonin; Cortex; Human; 5-HT_{1A} (Newberry, N.R. (833) 93)

5-HT autoreceptors
In vivo microdialysis; 5-Hydroxytryptamine; Hippocampal formation; Vigilance state plasticity; Raphé–hippocampal system (Mokler, D.J. (838) 95)

5-HT-moduline
Serotonin; Stress; 5-HT_{1B} receptor; Kinetic (Bonnin, A. (825) 152)

L-5-HTP
Brain capillary endothelial cell; L-DOPA; Cellular transport (Gomes, P. (829) 143)

5-HT_{1A} receptor
5-HT; 8-OH-DPAT,; Suprachiasmatic nucleus; 5-HT_7 receptor (Duncan Jr., W.C. (815) 126)

5-HT receptor; Adenylyl cyclase activity; Rat and human brain postmortem (Palego, L. (816) 165)

Dopamine release; Ipsapirone; *S*(−)-pindolol; Nucleus accumbens and striatum; In vivo microdialysis; Rat (Ichikawa, J. (842) 445)

5-HT_{1B} receptor
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5-HT_{2A} receptor
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5-HT_3 receptors
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5-HT_{1A} receptors
rTMS; Receptor autoradiography; NMDA receptors; Serotonin uptake sites; Hippocampus; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

5-HT_{1B} receptors
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5-HT reuptake blockade
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5-HT transporter
5-HT reuptake; Irreversible antagonist; Turnover; Cocaine; Dopamine transporter (Vicentic, A. (841) 1)

5-HT; 5-HT receptor; Hypothalamus; Diet-induced obesity (Park, S. (847) 90)

Human
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H-reflex; Reciprocal inhibition; Presynaptic inhibition; Long-latency inhibition; Voluntary muscle contraction (Leonard, C.T. (817) 1)

Brain-derived neurotrophic factor; Nerve growth factor; Neurotrophin-3; Neuropeptide Y; Epilepsy (Takahashi, M. (818) 579)

Posture; Sensory interaction; Vestibular; Somatosensory; Galvanic stimulation (Hlavacka, F. (821) 8)

Sphenopalatine ganglion; Otic ganglion; Neuropeptide Y; Vasoactive intestinal peptide; Calcitonin gene-related peptide (Uddman, R. (826) 193)

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Monoamine oxidase A; Depression; Locus coeruleus; Raphe; Postmortem (Ordway, G.A. (847) 71)

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Human brain synaptosomes
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Neurotoxicity; Lentivirus; Maedi Visna virus; Tat peptides; Rat (Starling, I. (830) 285)

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Ca^{2+} fluorescence microscopy; Platelet-activating factor; SERCA; Cyclopiazonic acid; Store-operated Ca^{2+} entry (Wang, X. (842) 159)

Human olfactory epithelium
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Apoptosis; Huntingtin protein; Subthalamic nucleus (O'Kusky, J.R. (818) 468)

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24-Hydroxycholesterol
SH-SY5Y human neuroblastoma cell; Lactate dehydrogenase; Calcium; ROS (Kölsch, H. (818) 171)

8-Hydroxy-2′-deoxyguanosine
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[^{35}S]GTPγS; Striatum; Receptor–G protein coupling; Supersensitivity (Geurts, M. (841) 135)

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6-hydroxydopamine
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Hydroxyindole-*O*-methyltransferase
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Chicken; Pineal gland; Melatonin; Circadian; Cyclic AMP (Grechez-Cassiau, A. (835) 97)

L-Glutamate; Serotonin-*N*-acetyltransferase; Melatonin; Pinealocyte (Ishio, S. (850) 73)

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Striatum; Lactic acid; Dopamine; Glutamate; NMDA receptors (Remblier, C. (837) 22)

8-Hydroxy-2-(*N*,*N*-dipropylamino)tetralin (8-OH-DPAT)
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5-Hydroxytryptamine
Guinea pig; Distal colon; Submucous plexus; Nitric oxide; Immunocytochemistry (Kadowaki, M. (831) 288)

In vivo microdialysis; 5-HT autoreceptors; Hippocampal formation; Vigilance state plasticity; Raphé–hippocampal system (Mokler, D.J. (838) 95)

5-Hydroxytryptamine-moduline
Chromogranin; Processing; GAIPIRRH; Genomic imprinting (Lovisetti-Scamihorn, P. (829) 99)

Hyperactivity
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Hyperalgesia
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Nociception; Nerve injury; Rat; Sciatic nerve ligation (Novak, J.C. (833) 308)

Analgesia; Endomorphin-1; μ-opiate receptor; Orphanin FQ; ORL1 receptor (Wang, Y.-Q. (835) 241)

Nociceptin; Tachykinin NK_1 receptor antagonist; Spinal cord; Intrathecal injection (Sakurada, C. (841) 85)

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Immediate early gene: c-*fos*; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Munglani, R. (822) 210)

Immediate early gene: c-*fos*; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Hudspith, M.J. (822) 220)

Hyperargininemia
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Hypercapnia
Periaqueductal Gray; Hypoxia; In vitro (Kramer, J.M. (835) 197)

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Ischemia; Hyperglycemia; Acidosis; Rat; Protein kinase C; Ca^{2+}/calmodulin kinase II (Katsura, K.-i. (849) 119)

Hyperemia
Cardiac arrest; Resuscitation; Cerebral blood flow; Amiloride (Lauro, K.L. (831) 64)

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Focal ischemia; Middle cerebral artery occlusion; Cyclosporin A; FK506 (Kuroda, S. (835) 148)

Cerebral ischemia; Glutamate; Amino acid; Arachidonic acid; Free fatty acid; Glucose; Cerebral cortex; Rat (Phillis, J.W. (837) 177)

Ischemia; Hypercapnia; Acidosis; Rat; Protein kinase C; Ca^{2+}/calmodulin kinase II (Katsura, K.-i. (849) 119)

Hyperoxia
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Hyperphagia
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Hypersensitivity
Immediate-early gene; Neuropathic pain; Immunohistochemistry (Siddall, P.J. (851) 281)

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α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Nucleus tractus solitarius; Nodose ganglion; Autoradiography; (*S*)-[^{3}H]-5-Fluorowillardiine (Ashworth-Preece, M.A. (834) 186)

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K^+; Stroke; Hydrogen clearance; Hypothermia; Infarction (Sick, T.J. (821) 400)

Ibogaine; Methamphetamine; Heat-shock-protein; Caudate nucleus; Striatum; Neurotoxicity (Yu, X. (823) 213)

Cortical spreading depression; Hippocampus; Paraventricular nucleus; Unit activity; Rat (Monda, M. (824) 119)

Delayed neuronal death; Gerbil; DNA fragmentation; 2-Deoxy-D-glucose (Hara, A. (840) 167)

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Cross tolerance; Heat shock protein; Hypoxic ischemia; Neonate (Wada, T. (847) 299)

Hypertonic saline
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Muscle pain; Human; Diffuse noxious inhibitory control (Svensson, P. (851) 32)

Hypocretin
Orexin; Hypothalamic area, lateral; Hypothalamic area, perifornical; Feeding behavior; Hypothalamus (Sweet, D.C. (821) 535)

Blood pressure; Food intake; Appetite; Orexin (Samson, W.K. (831) 248)

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Protruder; Retractor; Motoneuron; Intracellular; Substance P (Gatti, P.J. (834) 155)

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Androgen receptor; Brain; Mouse; Regulation; Castration; Testosterone (Apostolinas, S. (817) 19)

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Hypothalamic area, lateral
Orexin; Hypocretin; Hypothalamic area, perifornical; Feeding behavior; Hypothalamus (Sweet, D.C. (821) 535)

Hypothalamic area, perifornical
Orexin; Hypocretin; Hypothalamic area, lateral; Feeding behavior; Hypothalamus (Sweet, D.C. (821) 535)

Hypothalamic β-endorphin neuron
Acute ethanol; Chronic ethanol; Adenosine; Hormone secretion; cAMP production (Boyadjieva, N. (824) 112)

Hypothalamic cell
Ethanol; Calcium; Calcium channel blocker (Simasko, S.M. (824) 89)

Hypothalamic noradrenergic neuron
6-Hydroxydopamine; 1-Methyl-4-phenylpyridinium; L-DOPA; Neurotoxicity; Nigro-striatal dopaminergic neuron; Vesicular monoamine transporter type 2 (Cleren, C. (830) 314)

Hypothalamic paraventricular nucleus
Fos immunohistochemistry; Stress; Cerebral cortex; Endotoxin; Restraint (Yokoyama, C. (816) 267)

Spinal cord; Leptin; Fos immunoreactivity (Badoer, E. (844) 210)

Hypothalamic–pituitary–adrenal axis
α_1 Adrenoceptor; Stress; mRNA; Hypothalamus; Midbrain; Reverse transcriptase–polymerase chain reaction (Miyahara, S. (843) 130)

Hypothalamo-pituitary-adrenal (HPA) axis
Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Nutrition; Fetus; Guinea pig (Lingas, R. (846) 236)

Hypothalamo–pituitary–adrenal axis
Dexamethasone; Glucocorticoid; Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Fetus; Guinea pig (Dean, F. (846) 253)

Hypothalamo-pituitary-adrenocortical axis
Paraventricular nucleus; Septum; Hippocampus; Amygdala; Suprachiasmatic; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

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Perinatal overnutrition; Overweight; Insulin; Galanin; Paraventricular hypothalamic nucleus (Plagemann, A. (818) 160)

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Suprachiasmatic nucleus; Pseudorabies virus; Circadian rhythm; Neuroanatomy (Leak, R.K. (819) 23)

Oxytocin; Adrenocorticotropin; HPA axis; Development; Sheep (Matthews, S.G. (820) 92)

Chronic stress; Adrenalectomy; HPA axis; Pituitary (Martí, O. (821) 1)

Hippocampus; Paraventricular nucleus; Neural stimulus; CRH-41; Glucocorticoid receptor antagonist; Negative feedback (Feldman, S. (821) 33)

Hypertension; Energy balance; [D-Trp^{32}]$NPY_{(1-36)}$; [D-$Tyr^{27,36}$ Thr^{32}]$NPY_{(27-36)}$ (VanNess, J.M. (821) 263)

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Steroid-induced neural plasticity; Testosterone; Substance P-like immuno-histochemisrty; Weakly electric fish; *Apteronotus leptorhynchus* (Dulka, J.G. (826) 1)

Orexin; Feeding behavior; Immunohistochemistry (Nambu, T. (827) 243)

Corticosterone; Chronic corticosterone; Neural cell adhesion molecule; Neural plasticity; Frontal cortex (Sandi, C. (828) 127)

Leptin receptor; Neuropeptide Y; Proopiomelanocortin; Food intake (Baskin, D.G. (828) 154)

Acute stressor; Nitric oxide; Neuroendocrine; Histochemistry; Rat (Sánchez, F. (828) 159)

Fos-protein; Osmotic stimulus; Vasopressin; Oxytocin (Rocha, M.J.A. (829) 197)

$PACAP_{38}$; $PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Cerebral cortex; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Vasopressin; Vasoactive intestinal peptide; Circadian rhythm immunofluorescence; Confocal laser scanning microscopy (Romijn, H.J. (832) 47)

Glia; Sleep; Immune response; Cytokine; Infections of the nervous system; African sleeping sickness (Chianella, S. (832) 54)

Paraventricular nuclei; Neurotensin; Vasopressin; Double immunostaining; Synapse; Electron microscopy (Wang, Q.-P. (834) 25)

Early overnutrition; Galanin; Insulin; Syndrome X (Plagemann, A. (836) 146)

Dopaminergic neuron; Feedback; HPLC-EC (DeMaria, J.E. (837) 236)

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TRH; Glucocorticoid; Phorbol ester; *N*-Ethylmaleimide; AP-1; CREB (Luo, L.-G. (841) 189)

α_1 Adrenoceptor; Stress; mRNA; Midbrain; Reverse transcriptase–polymerase chain reaction; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

Obesity; Saturated fat; $n-3$ Polyunsaturated fat; $n-6$ Polyunsaturated fat (Wang, H. (843) 184)

Carotid rete; Pons; Selective brain cooling; Ultradian wake–sleep cycle; Systemic brain cooling (Azzaroni, A. (844) 206)

Globus pallidus; Neurotensin; Ventral pallidum; Tandem mass spectrometry; Micro-electrospray; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Melanin concentrating hormone; Appetite; Intracerebroventricular; Melanocortin receptor (Rossi, M. (846) 164)

5-HT; 5-HT receptor; 5-HT transporter; Diet-induced obesity (Park, S. (847) 90)

Neuropeptide Y (NPY); Agouti-related protein (AgRP); Melanocortin-4 receptor (MC4R); NPY-deficient mice; MC4R-deficient mice; Feeding behavior (Marsh, D.J. (848) 66)

Obesity; Neuropeptide Y; Arcuate nucleus; Paraventricular nucleus; Dopamine; Norepinephrine; Transporter (Baskin, D.G. (848) 114)

Arcuate nucleus; Paraventricular nucleus; Glucose; Eating behavior; Insulin corticosterone (Wang, J. (848) 124)

Superoxide; Nitric oxide; Hippocampus; Thalamus; Suprachiasmatic nucleus (Oury, T.D. (850) 96)

Neuropeptide Y; Proopiomelanocortin; Diet-induced obesity; High-fat diet (Bergen, H.T. (851) 198)

Hypothalamus–pituitary–adrenal axis
GRP; ACTH; Corticosterone; GRP antagonist; Extracelullar calcium (Garrido, M.M. (828) 20)

Hypothermia
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Mitochondria; Cerebral ischemia; Reperfusion; Cytochrome c oxidase; Respiratory chain (Canevari, L. (817) 241)

Kainic acid; Limbic seizure; Autoradiography (Maeda, T. (818) 228)

K^+; Stroke; Hydrogen clearance; Hyperthermia; Infarction (Sick, T.J. (821) 400)

Ischemia; Neuroprotection; Rat; Peripheral nerve (Mitsui, Y. (827) 63)

Cerebral ischemia; γ-Aminobutyric acid; Neuroprotection; CA1 (Dowden, J. (829) 1)

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Meningitis; Glutamate; Aspartate; Neurotransmitter; Heat shock protein (Irazuzta, J.E. (847) 143)

Hypothyroidism
Thyroid hormones; Malondialdehyde; Free radicals; Peroxidation; Protein modification (Chehade, J. (829) 201)

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Creatine; Phosphocreatine; Ischemia; Anoxic depolarization; Protection; Neuronal damage (Balestrino, M. (816) 124)

Respiratory control; Plasticity (Bach, K.B. (817) 25)

Angiotensin II receptor expression; In situ hybridization; [^{125}I]Sar^1-Ang II; Receptor autoradiography; Cerebral blood flow; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Free radical; Magnesium; Fetus; Brain; Maturity (Maulik, D. (817) 117)

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HSP70; p38 MAP kinase; Ischemia; Astrocyte (Uehara, T. (823) 226)

Cerebral blood flow; Rostral ventrolateral medulla; ATP-sensitive potassium channel; Oxygen; Arterial pressure (Golanov, E.V. (827) 210)

Brain; Microdialysis electrode; Glutamate; Real-time monitoring; In vivo (Kunimatsu, T. (831) 273)

Carotid body; Respiratory chain; Low calcium and high magnesium; Presynaptic; Postsynaptic (Rozanov, C. (833) 101)

Calcium channels; Hippocampal neurones (Shkryl, V.M. (833) 319)

Periaqueductal Gray; Hypercapnia; In vitro (Kramer, J.M. (835) 197)

Potassium currents; Hippocampal neurons; Oxygen measurements; Hydrosulphite (Gebhardt, C. (837) 270)

Na^+,K^+ ATPase; Ouabain; Spreading depression; Ischemia; Hippocampus; Brain slice (Balestrino, M. (838) 37)

Acetylcholine; Carotid body; Cholinergic receptor; Cholinergic stimulation; HPLC (Fitzgerald, R.S. (841) 53)

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Nitrotyrosine; Peroxynitrite; Brain slice; NMDA (Ochiai-Kanai, R. (847) 59)

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Hypoxia / aglycemia
Blood–brain barrier (BBB); E-Cadherin; Calcium-dependent cell adhesion; Stroke (Abbruscato, T.J. (842) 277)

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Hypoglycemia; Fasting; Insulin; Cerebral metabolism; Newborn piglet (Chang, Y.S. (844) 135)

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Carbon monoxide poisoning; Spreading depression; Hippocampus; Place navigation; Neuroprotective effect (Koroleva, V.I. (816) 618)

Hypoxic ischemia
Cross tolerance; Heat shock protein; Hyperthermia; Neonate (Wada, T. (847) 299)

Hypoxic / ischemic
HB-EGF; Neonate; NMDA; Neuroprotection (Tanaka, N. (827) 130)

I

Ib interneuron
Motoneuron; Muscle pain (Rossi, A. (815) 106)

Ibogaine
Neurotensin; Dopamine; Cocaine; Methamphetamine; Drug abuse (Alburges, M.E. (818) 96)

Methamphetamine; Hyperthermia; Heat-shock-protein; Caudate nucleus; Striatum; Neurotoxicity (Yu, X. (823) 213)

Cocaine; Dynorphin; Neurotensin; Striatum; Nucleus accumbens (Alburges, M.E. (847) 139)

Ibotenic acid
Ventral subiculum; T-maze; Rewarded alternation task (Laxmi, T.R. (816) 245)

Temporomandibular joint; Mustard oil; Trigeminal subnucleus caudalis; Nociceptive reflex; Jaw muscle (Tsai, C.-M. (826) 293)

Voltammetry; Locomotor activity; Perinatal anoxia; Medial prefrontal cortex; Schizophrenia (Brake, W.G. (831) 25)

ICSS-experience
Fornix lesioning; Amelioration; Hippocampus; Operant and Spatial learning (Yoganarasimha, D. (845) 246)

Identified neurones
SEPYLRFamide; EPYLRFamide; SEGYLRFamide; SRPYLRFamide; SKPYLRFamide; Acetylcholine; *Helix lucorum* (Pivovarov, A.S. (821) 294)

Idiopathic late onset cerebellar ataxia
Insulin-like growth factor-I; Insulin-like growth factor binding protein; Human olfactory epithelium; Parkinson's disease; Amyotrophic lateral sclerosis (Federico, G. (835) 306)

Idiopathic stupor
Transcranial magnetic stimulation; Benzodiazepine; GABA; Cortical excitability; MEP; Drug abuse (Palmieri, M.G. (815) 192)

IFN-γ
Calpain; Free radical; A23187; C6 cell death; RT-PCR (Ray, S.K. (829) 18)

IGF-1
Sleep; Growth hormone; GHRH; Somatostatin; Rats; Rabbits; EEG (Obál Jr., F. (818) 267)

IgG
Astrocyte; Complete Freund's adjuvant; Extravasation; Glial fibrillary acidic protein; Mac-1; Microglia (Rabchevsky, A.G. (832) 84)

192 IgG-saporin
Acetylcholine; Alzheimer's disease; Basal forebrain; Cerebral circulation (Waite, J.J. (818) 1)

Hippocampal formation; Interneuron; Astrocyte; Electron microscopy; Septohippocampal pathway (Milner, T.A. (831) 322)

Working memory; Radial maze; Cholinergic basal forebrain; Immunotoxin; Acetylcholine (Wrenn, C.C. (847) 284)

IGL
Circadian rhythm; Suprachiasmatic nucleus; Non-photic; Neuropeptide Y; Serotonin (Schuhler, S. (849) 16)

Ihara epileptic rat
Epilepsy; Limbic-like seizure; Mossy fiber sprouting; Neuronal plasticity (Amano, S. (834) 214)

IκBα
α-Melanocyte-stimulating hormone; NF-κB; Inflammation; Melanocortin receptor (Ichiyama, T. (836) 31)

IL-1
MADB106; Tumor; NK cell; Catecholamine (Hodgson, D.M. (816) 200)

IL-13
Microglia; Multinucleated giant cell; Cytokine; IL-4 (Suzumura, A. (849) 239)

IL-4
Microglia; Multinucleated giant cell; Cytokine; IL-13 (Suzumura, A. (849) 239)

IL-1β
TNF-α; Ischemia; Reperfusion; Nerve; Cytokines (Mitsui, Y. (844) 192)

Illumination
Suprachiasmatic nucleus; Retina; Electrophysiology; Degu; Rat; Circadian; Entrainment (Jiao, Y.-Y. (817) 93)

IL-1ra
Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; Corticosterone; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

Image-analysis
Focal cerebral ischemia; Animal model; Poly-L-lysine; Mouse (Belayev, L. (833) 181)

Imaging
$GABA_A$ receptor; Embryonic carcinoma cell; Ethanol; Subunit expression; RT-PCR (Chistina Grobin, A. (827) 1)

Imidazoline
Adrenergic; Sodium appetite; Water intake; Dehydration (Sugawara, A.M. (839) 227)

Iminodipropionitrile neurotoxicity
CNS gliosis; Glial fibrillary acidic protein; Nitrile neurotoxicity; Retinal degeneration and gliosis; Sensory toxicity (Seoane, A. (833) 258)

Immature brain
Hippocampal slice; Glutamate; Transporter; Depolarization (Katsumori, H. (819) 160)

Monoamine; Dopamine; Anoxia; Indomethacin; In vivo microdialysis (Ogasawara, M. (842) 487)

Immediate early gene
Cerebral ischemia; Neuronal death; Hippocampus; Gene expression; JunB-glial fibrillary acidic protein (Whitfield, P.C. (818) 450)

Stress; c-*fos*; Learned helplessness; Lateral septum (Steciuk, M. (822) 256)

c-*fos*; Striatum; Globus pallidus; Entopeduncular nucleus; Subthalamic nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

Iron; Oxidative stress; Hydroxyl radical; c-*fos*; Parkinson's disease (Hironishi, M. (828) 145)

Antisense oligonucleotide; c-*fos*; Cerebral ischemia; Cerebral infarction (Zhang, Y. (832) 112)

Photoperiod; Bird song; ZENK (Duffy, D.L. (844) 78)

Neuropathic pain; Axotomy; Dorsal horn; Dorsal column nucleus; Baclofen (Tokunaga, A. (847) 321)

Immediate-early gene
Superior olivary complex; Inferior colliculus; Medial geniculate body; Auditory cortex; Behavior (Carretta, D. (841) 170)

Hypersensitivity; Neuropathic pain; Immunohistochemistry (Siddall, P.J. (851) 281)

Immediate early gene: c-*fos*
Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Munglani, R. (822) 210)

Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Hudspith, M.J. (822) 220)

Immediate-early genes
c-*fos*; Subthalamic nucleus; Neuroleptic; Dopamine; Primate (Wirtshafter, D. (835) 154)

Immobilization
Microdialysis; Norepinephrine; Paraventricular nucleus; Yohimbine (Tjurmina, O.A. (826) 243)

Immune response
Glia; Hypothalamus; Sleep; Cytokine; Infections of the nervous system; African sleeping sickness (Chianella, S. (832) 54)

Immunoblot
Dendritic remodeling; Fear conditioning; Immunohistochemistry; Cytoskeletal protein; Rat (Woolf, N.J. (821) 241)

Corticosteroid; GIRK; Corticosterone; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Immunoblotting
Cyclic AMP response element binding protein; Dementia of the Alzheimer type; Postmortem human brain; Cyclic AMP signal transduction system (Yamamoto-Sasaki, M. (824) 300)

Immunocytochemistry
Tissue culture; GABAergic neuron; Calcium-binding protein; Parvalbumin; Calbindin; Drug of abuse; Cocaine cytotoxicity; Ontogenesis (Glezer, I.I. (815) 389)

Rana pipiens; Retina; Amacrine cell; Dopamine; Tyrosine hydroxylase; Neurotransmitter (Kicliter, E. (816) 149)

Electron microscopy; NR2B; Cerebral cortex; Hippocampus; Rat (Charton, J.P. (816) 609)

Developing brain; Hippocampus; Dentate gyrus; Gamma irradiation; Astrocyte proliferation; Autoradiography; S100β protein (Janeczko, K. (816) 628)

Spinal cord; Motoneuron; Acetylcholine; Muscarinic receptor; Confocal microscopy (Welton, J. (817) 215)

Gonadotropin releasing hormone; LHRH; Puberty (Richardson, H.N. (817) 232)

AMPA; Vestibular end organ; Afferent; Neurotransmitter; Rat (Matsubara, A. (819) 58)

Arginine^8–vasopressin; Memory consolidation; Limbic structure; Fos-protein; Mouse brain (Paban, V. (825) 115)

Cardiac ganglia; Parasympathetic neuron; Reverse transcription polymerase chain reaction; Neuropeptide Y; Microtubule-associated protein-2; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Oxytocin; Vasopressin; Microtubule; Cytoskeleton; Plasticity; Shape conversion; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

G-protein coupled receptor; Basal ganglia; Medium spiny neuron; Striatal interneuron; Laser scan confocal microscopy (Yung, K.K.L. (830) 345)

Dystrophin; Blood–brain barrier; Astrocyte; Perivascular glia (Jancsik, V. (831) 200)

Guinea pig; Distal colon; Submucous plexus; 5-Hydroxytryptamine; Nitric oxide (Kadowaki, M. (831) 288)

Poly(ADP–ribose) polymerase; Motor neuron (Cookson, M.R. (834) 182)

In situ hybridization; Organogenesis; Mesoderm; Ectoderm; Endoderm; Proenkephalin mRNA; ζ Opioid receptor (Zagon, I.S. (839) 313)

Pineal gland; Synapse; Peptide; Innervation; Tree shrew (*Tupaia glis*) (Kado, M. (842) 359)

Biogenic amine; Neurotransmitter; Insect brain; Circadian pacemaker (Loesel, R. (842) 408)

Electron microscopy; Retinocollicular pathway; Corticocollicular pathway; Calcium binding protein; X, Y, W cells (Mize, R.R. (843) 25)

Dopamine-releasing protein (DARP); Rat C6 glioma cell; ELISA; Neurotrophic factor (Smith, S. (843) 95)

Ribosome inactivating protein; Basal forebrain; Neostriatum; Cholinergic neuron (Kwok, K.H.H. (846) 154)

Vasoactive intestinal peptide; Development; Brain; Frog (Mathieu, M. (851) 105)

Immunoelectron Microscopy
TNF-α; Hippocampus; Pyramidal Neuron; Glia (Tseng, M.T. (833) 121)

Immunoglobulin superfamily
Neuron–microglia interaction; LFA-1; Microglial cell line; Neurodegenerative disease (Mizuno, T. (849) 58)

Immunogold
Glutamate; GABA; Solitarius; Infralimbic; Ultrastructure (Torrealba, F. (820) 20)

Excitatory amino acid; AMPA receptor; Amygdala; GABA; Ultrastructure (He, Y. (827) 51)

Immunohistochemistry
Neuroregeneration; Nerve growth factor; Capsaicin; Calcitonin gene-related peptide; Primary afferent (Schicho, R. (815) 60)

Vestibular compensation; *N*ω-nitro-L-arginine methyl ester; Nitric oxide synthase; Vestibulocerebellum; Fos (Kitahara, T. (815) 405)

Heat shock protein; Postsynaptic density; Molecular chaperone; Synapse; Synaptic plasticity (Suzuki, T. (816) 99)

Brain; Development; Macrophage migration inhibitory factor; Cytokine; In situ hybridization (Suzuki, T. (816) 457)

S-100β; Dental pulp; Axon; Schwann cell (Atsumi, Y. (818) 515)

Myelin; Osteopontin; Chick; Western blot; Demyelination (Kang, T.-C. (818) 527)

Primary afferents; Sensory neurons; Nociception (Carlton, S.M. (820) 63)

Gerbil; Rat; Parvocellular paraventricular nucleus; Substance P; Dehydration (Kang, T.-C. (820) 101)

Dorsal root ganglion; Na^+/K^+ pump isoform; Neuron subpopulation (Dobretsov, M. (821) 212)

Dendritic remodeling; Fear conditioning; Cytoskeletal protein; Immunoblot; Rat (Woolf, N.J. (821) 241)

Galanin; Gonadotropin-releasing hormone; GnRH; Luteinizing hormone-releasing hormone; Estrous cycle (Rajendren, G. (821) 270)

Sex difference and differentiation; GHRH-ir neuron; SS-ir neuron; Morphometry; Hypothalamus (Nurhidayat, (821) 309)

Brain-derived neurotrophic factor; Glia; Monkey brain; Neuron (Kawamoto, Y. (821) 341)

Basal ganglia; Brain; CYP2D; P450; Parkinson's disease (Riedl, A.G. (822) 175)

Serotonin; Insect; Praying mantis; Optic lobe; Lamina (Leitinger, G. (823) 11)

Semaphorin IV; Human brain; Hippocampus; Nerve process (Hirsch, E. (823) 67)

Cat brainstem; Vestibular nuclei; Unilateral vestibular neurectomy; Fos expression (Gustave Dit Duflo, S. (824) 1)

Serotonin; Raphe nuclei; Fos; Stress; Anxiety; Depression (Grahn, R.E. (826) 35)

Mu-opioid receptor; Central nucleus of the amygdala; Pain; Blood pressure (Chamberlin, N.L. (827) 198)

Blood–brain barrier; Infarction; Stroke (Remmers, M. (827) 237)

Orexin; Feeding behavior; Hypothalamus (Nambu, T. (827) 243)

Focal cerebral ischemia; Middle cerebral artery occlusion; Neuroprotection; Poly(ADP-ribose) polymerase; Laser Doppler flowmetry; Rat (Takahashi, K. (829) 46)

Cerebellum; Purkinje cell; Hereditary ataxia; Tyrosine hydroxylase (Sawada, K. (829) 107)

Bleomycin hydrolase; Protease; Alzheimer's disease; Senile plaque (Namba, Y. (830) 200)

Dorsal root ganglion; Fluorescence; Confocal microscopy (Bergman, E. (832) 63)

Circadian clock; Constant darkness; Protein expression; Glutamate receptor (Chambille, I. (833) 27)

FMRFamide; Ontogeny; Pituitary; Basophilic invasion; *Tupaia belangeri* (Scandentia) (Malz, C.R. (834) 83)

Connective tissue growth factor; Brain; Spinal cord; Astrocyte (Kondo, Y. (834) 146)

Endogenous morphine; Invertebrate nervous system; Invertebrate immune system; Trauma response; High performance liquid chromatography; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

S-100β; Basic fibroblast growth factor; Stereology; Fractionator (Gomide, V.C. (835) 162)

8-OHdG; Oxidative DNA damage; Ischemia; Gerbil; Hippocampus (Won, M.H. (836) 70)

Metalloprotease; Neuronal; Synapse (Huber, A.B. (837) 193)

Cationic amino acid transporter; Rat; Brain; In situ hybridization; Arginine (Hosokawa, H. (838) 158)

D-Aspartate; Pituitary gland; Retina; Prolactin; Luteinizing hormone (Lee, J.-A. (838) 193)

Calcitonin gene-related peptide; Dorsal root ganglion; Mesencephalic trigeminal tract nucleus; Osteocalcin; Parvalbumin; Trigeminal ganglion (Ichikawa, H. (838) 205)

Calbindin D28k; Substantia gelatinosa; Spinal trigeminal nucleus; Intracellular staining; Biocytin; Nociception; Rat (Li, Y.-Q. (840) 179)

Dopamine receptor subtype; Dopamine transporter; Basal ganglia; Brain development (Meng, S.Z. (843) 136)

Calbindin D-28k; Calcitonin gene-related peptide; Parvalbumin; Peptide 19; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

GDNF; Trigeminal ganglion; Trigeminal sensory nucleus; Man; SP; CGRP; trkA (Quartu, M. (847) 196)

Neuropeptide; Cholecystokinin; Morphine; Opioid; Neuropathy; Inflammation; Spinal cord; Microdialysis (Wiesenfeld-Hallin, Z. (848) 78)

Arcuate nucleus; Coexistence; Feeding; In situ hybridization; Monosodium glutamate; Mouse; Paraventricular hypothalamic nucleus (Broberger, C. (848) 101)

Nerve injury; S-100; Periodontal ligament; Ruffini ending; Schwann cell; Regeneration (Atsumi, Y. (849) 187)

Hepatocyte growth factor; c-Met; Retina; Development; Competitive RT-PCR (Sun, W. (851) 46)

Cytokine; Excitatory amino acid; Neuroprotection; Excitotoxicity (Liu, X.-H. (851) 94)

Immediate-early gene; Hypersensitivity; Neuropathic pain (Siddall, P.J. (851) 281)

Immunophilin
Morris water maze; Aging; GPI 1046 (Sauer, H. (842) 109)

Immunoreactivity
GFRα-1; Ret; Focal ischemia; Middle cerebral artery occlusion (Kitagawa, H. (834) 190)

Immunostaining
Fluoxetine; Mu-opioid receptor; Rat brain; Antidepressant; Selective serotonin reuptake inhibitor (De Gandarias, J.M. (817) 236)

Glut1; Glut3; Local cerebral glucose utilization; Autoradiography (Duelli, R. (831) 254)

Opioid-binding cell adhesion molecule; OB-CAM; Adult rat; Distribution; Localization (Hachisuka, A. (842) 482)

Immunotoxin
Working memory; Radial maze; 192 IgG-saporin; Cholinergic basal forebrain; Acetylcholine (Wrenn, C.C. (847) 284)

Inbred strain
Mouse; Cognition; Kainic acid; Excitotoxicity (Royle, S.J. (816) 337)

Individual variation
Melatonin receptor; Photoresponsiveness; Seasonal breeding; Pars tuberalis; Suprachiasmatic nucleus; Paraventricular nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Indo-1/AM
Carotid body; Glomus cell; Intracellular calcium; Membrane potential; Hypoxia; Cobalt; Calcium-selective microelectrode (Zhang, X.Q. (818) 118)

Indole acids
Glutathione; Lipid peroxidation; Neurodegeneration; Neuroprotection; Striatum (Poeggeler, B. (815) 382)

Indomethacin
Monoamine; Dopamine; Anoxia; Immature brain; In vivo microdialysis (Ogasawara, M. (842) 487)

Induced hypertension
Cerebral ischemia; Brain edema; Cerebral blood flow; Energy metabolism (Hosomi, N. (835) 188)

Inducible transcription factor
Antisense phosphorothioate oligonucleotides; Prepositus hypoglossus; Posture; Movement; Labyrinthectomy (Kaufman, G.D. (817) 246)

Traumatic brain injury; Rat; Conditioned freezing response; Amygdala; Hippocampus (Abrous, D.N. (826) 181)

Induction
CNTF; NGF; Cortical astrocyte; Interaction; $p75^{NTR}$; Rat (Semkova, I. (838) 184)

Infarction
K^+; Stroke; Hydrogen clearance; Hypothermia; Hyperthermia (Sick, T.J. (821) 400)

Blood–brain barrier; Immunohistochemistry; Stroke (Remmers, M. (827) 237)

Infections of the nervous system
Glia; Hypothalamus; Sleep; Immune response; Cytokine; African sleeping sickness (Chianella, S. (832) 54)

Inferior colliculus
Audiogenic seizure; Superior colliculus; Seizure network; Genetically epilepsy-prone rat; Pontine reticular formation (Faingold, C. (821) 392)

Ventral pallidum; Amygdala; Electrical stimulation; Acoustic startle; Interstimulus interval; Prepulse inhibition (Li, L. (836) 164)

Immediate-early gene; Superior olivary complex; Medial geniculate body; Auditory cortex; Behavior (Carretta, D. (841) 170)

Auditory cortex; Bat; Corticofugal facilitation and inhibition (Jen, P.H.-S. (841) 184)

Inferior mesenteric artery
Nitric oxide synthase; Calcitonin gene related peptide; Substance P; Inferior mesenteric ganglion; Inferior mesenteric vein (Zheng, Z.L. (827) 113)

Inferior mesenteric ganglion
Nitric oxide synthase; Calcitonin gene related peptide; Substance P; Inferior mesenteric artery; Inferior mesenteric vein (Zheng, Z.L. (827) 113)

Inferior mesenteric vein
Nitric oxide synthase; Calcitonin gene related peptide; Substance P; Inferior mesenteric ganglion; Inferior mesenteric artery (Zheng, Z.L. (827) 113)

Inferior olive
Pseudorabies virus; Transsynaptic transport; Tract-tracing; Retrograde labeling; Cholera toxin subunit B (Chen, S. (838) 171)

Inflammation
Noradrenaline; Locus coeruleus (Tsuruoka, M. (821) 236)

Carrageenin; Opioid receptor antagonist; Morphine; Spinal cord; c-Fos (Catheline, G. (824) 105)

Sodium channel augmentation; Pain; Dorsal root ganglia (Gould III, H.J. (824) 296)

Cytochrome *P*450; LPS; Astrocyte (Nicholson, T.E. (827) 12)

Mechanical allodynia; Glia; Cytokines; Formalin; Zymosan (Sweitzer, S.M. (829) 209)

Heart; Kidney; Liver; Intestine; Spleen; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Heart; Kidney; Liver; Myocardial infarction; Spleen; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Astrocyte; GFAP; Injury; Enteric glia; Schwann cell (Sofroniew, M.V. (835) 91)

α-Melanocyte-stimulating hormone; NF-κB; IκBα; Melanocortin receptor (Ichiyama, T. (836) 31)

TNF-α; Transgenic mice; Learning; Cytokine; Behavior; Demyelination; CNS inflammation (Aloe, L. (840) 125)

Neuropeptide; Cholecystokinin; Morphine; Opioid; Neuropathy; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Allodynia; Opioid mechanisms; Morphine (Panula, P. (848) 191)

Information transfer latency
Muscle spindle afferent; Golgi tendon organ afferent; Sinusoidal response; Tendon jerk (Schäfer, S.S. (843) 36)

Infralimbic
Glutamate; GABA; Immunogold; Solitarius; Ultrastructure (Torrealba, F. (820) 20)

Infralimbic cortex
Anterior cingulate cortex; Prelimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Infraorbital nerve
Nerve injury; Thalamus; Sensory trigeminal nuclear complex; Apoptosis; Newborn rat (Sugimoto, T. (824) 284)

Ingestive behavior
Paraventricular; Lateral hypothalamus; Neuropeptide (Kay-Nishiyama, C. (822) 251)

Inhaled anesthetic
Isoflurane; Benzodiazepine; Mechanism of action; Reduced sensitivity; Tolerance (Flaishon, R. (815) 287)

Inhibin
Follistatin; Gene expression; Survival; Rescue (Wu, D.D. (835) 369)

Inhibition
Partial epilepsy; Tetanus toxin; Rat (Hagemann, G. (818) 127)

Cerebellum; Learning; Deep nuclei; Plasticity (Freeman Jr., J.H. (833) 225)

Use-dependent plasticity; Somatosensory cortex (Siucinska, E. (843) 62)

Hippocampus; Modulation; Vigilance state; Dentate granule cell; Plasticity (Bronzino, J.D. (849) 45)

Inhibitor
S-COMT; MB-COMT; Brain (Vieira-Coelho, M.A. (821) 69)

Inhibitory amino acid
Microdialysis; HPLC; Excitatory amino acid (Geddes, J.W. (831) 104)

Inhibitory avoidance
Morris water maze; NMDA; GABAergic system (Spanis, C.W. (816) 329)

Inhibitory circuitry
Trigeminal; Oral–motor activity; Minimal circuitry (Tanaka, S. (821) 190)

Inhibitory neurotransmitter
Pain; Chronic constriction injury; Dorsal horn (Eaton, M.J. (835) 334)

Inhibitory synaptic current
Ethanol; Motoneuron excitability; Action potential waveform; Excitatory synaptic current; Developing spinal cord (Cheng, G. (845) 224)

Initiation of movement
Sensorimotor information processing; Motor control; Learned motor performance; Electromyographic analysis of behavior (Woody, C.D. (836) 79)

i.c.v. Injection
Regulation of food intake; c-Fos induction; Paraventricular nucleus of the hypothalamus (Vrang, N. (818) 499)

Injury
Astrocyte; GFAP; Inflammation; Enteric glia; Schwann cell (Sofroniew, M.V. (835) 91)

Inner ear
Cochlear efferent system; Spiral ganglion neurons; Cholinergic receptor; Muscarinic receptor; Calcium signaling (Rome, C. (846) 196)

Inner ear dysfunction
Nitric oxide; iNOS; Soluble guanylyl cyclase; Cochlea (Hess, A. (830) 113)

Inner nuclear layer
CD38; ADP–ribosyl cyclase; Retina; Ganglionic layer (Khoo, K.M. (821) 17)

Innervation
Pineal gland; Synapse; Immunocytochemistry; Peptide; Tree shrew (*Tupaia glis*) (Kado, M. (842) 359)

Inositol
LiCl; Cl^-–ATPase; Cl^--sensitive fluorescent dye (MQAE); Intracellular Cl^- concentration; Hippocampal pyramidal neuron (Yagyu, K. (821) 530)

Inositol phosphate
Dopamine D_1-like receptor; Signal transduction; Phosphoinositide; Phospholipase-C; CDP–diacylglycerol (Undie, A.S. (816) 286)

Inositol 1,4,5-trisphosphate receptor
Circadian rhythm; Suprachiasmatic nucleus; Rat brain; Glial fibrillary acidic protein (Hamada, T. (838) 131)

Input–output modulation
Touch; Tactile sensation; Thalamic neuron; Somatosensory system; Volatile anesthetic (Detsch, O. (829) 77)

Input resistance
Potassium channel pharmacology; Neuron-glial interaction; Acetylcholine release; Calcium influx; Sodium influx (Müller, M. (826) 63)

Insect
Load; Posture; Mechanoreceptor (Zill ,, S.N. (822) 271)

Immunohistochemistry; Serotonin; Praying mantis; Optic lobe; Lamina (Leitinger, G. (823) 11)

Insect brain
Immunocytochemistry; Biogenic amine; Neurotransmitter; Circadian pacemaker (Loesel, R. (842) 408)

Insect nervous system
Neuropeptide; Tachykinin-related peptide; FMRFamide; Allatotropin; Sensory neuron (Persson, M.G.S. (816) 131)

In situ hybridization
Brain; Development; Macrophage migration inhibitory factor; Cytokine; Immunohistochemistry (Suzuki, T. (816) 457)

Angiotensin II receptor expression; [^{125}I]Sar^1-Ang II; Receptor autoradiography; Hypoxia; Cerebral blood flow; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Angiotensinogen; Angiotensin II; Transgenic; Brain; Amygdala (Yang, G. (817) 123)

Hepatic leukemia factor; PAR protein; Synaptogenesis (Hitzler, J.K. (820) 1)

HGF/SF; c-*met*; tPA; Cerebral cortex; Hippocampus (Thewke, D.P. (821) 356)

CCK mRNA; Restraint stress; Sertraline; Rat (Giardino, L. (824) 304)

Amyloid β precursor protein; Cerebral amyloid angiopathy; HCHWA-D; Alzheimer's disease (Natté, R. (828) 179)

Neuropeptide Y; Corticotropin-releasing factor; Noda epileptic rat; Radioimmunoassay (Jinde, S. (833) 286)

Striatum; GABA; Neuropeptide; Amphetamine; SKF-82958 (Jones, E.A. (836) 99)

Cationic amino acid transporter; Rat; Brain; Immunohistochemistry; Arginine (Hosokawa, H. (838) 158)

Immunocytochemistry; Organogenesis; Mesoderm; Ectoderm; Endoderm; Proenkephalin mRNA; ζ Opioid receptor (Zagon, I.S. (839) 313)

Wobbler mouse; GAP-43 mRNA; Glucocorticoid; 21-Aminosteroid; Amyotrophic lateral sclerosis; Spinal cord (González Deniselle, M.C. (841) 78)

Tie 1; Embolic MCA occlusion; Cerebral microvessel; Rat (Zhang, Z.G. (847) 338)

Arcuate nucleus; Coexistence; Feeding; Immunohistochemistry; Monosodium glutamate; Mouse; Paraventricular hypothalamic nucleus (Broberger, C. (848) 101)

GAP-43; BDNF; Facial nerve; Regeneration; Drug delivery system (Kohmura, E. (849) 235)

Preoptic area; Bed nucleus of the stria terminalis; Avian brain; Male sexual behavior; Neuropeptide (Panzica, G. (850) 55)

Circadian; GAD_{65}; GAD_{67}; SCN; GABA; Rat (Huhman, K.L. (851) 266)

$GABA_A$; Anxiety; Punishment; Behavior; Alprazolam (Liu, M. (882) 8)

In situ hybridization histochemistry
Estrogen receptor; Progesterone receptor; Lateral geniculate nucleus (Horvath, T.L. (844) 196)

Fasting; Leptin; Nitric oxide synthase; Thyrotropin-releasing hormone; Corticotropin-releasing hormone (Isse, T. (846) 229)

Insulin
Body weight; Hyperphagia; Paraventricular nucleus; Adipocyte (Dube, M.G. (816) 38)

Perinatal overnutrition; Overweight; Hypothalamus; Galanin; Paraventricular hypothalamic nucleus (Plagemann, A. (818) 160)

Hippocampus; Memory; Diabetes; Glucose; Muscimol; Oxotremorine; Bicuculinne; Acetylcholine (Messier, C. (818) 583)

Pulsatile LH secretion; GnRH pulse generator; Glucose; Hypoglycemia; Female rat (He, D. (820) 71)

Organotypic culture; Neomycin intoxication; Protective action; Retinoic acid; Epidermal growth factor; Transforming growth factors (Romand, R. (825) 46)

SHC; GRB2; Insulin receptor; Brain; Cerebellum (De L.A. Fernandes, M.L. (826) 74)

Early overnutrition; Hypothalamus; Galanin; Syndrome X (Plagemann, A. (836) 146)

Hypoxia–ischemia; Hypoglycemia; Fasting; Cerebral metabolism; Newborn piglet (Chang, Y.S. (844) 135)

Insulin corticosterone
Hypothalamus; Arcuate nucleus; Paraventricular nucleus; Glucose; Eating behavior (Wang, J. (848) 124)

Insulin-like growth factor-1
Gonadotrophin-releasing hormone; *N*-Methyl-D-aspartate receptor; Insulin-like growth factor-binding protein 2; Insulin-like growth factor-binding protein 3; GPE or (1–3)IGF-I (Bourguignon, J.-P. (847) 247)

Insulin-like growth factor binding protein
Insulin-like growth factor-I; Human olfactory epithelium; Idiopathic late onset cerebellar ataxia; Parkinson's disease; Amyotrophic lateral sclerosis (Federico, G. (835) 306)

Insulin-like growth factor-binding protein 2
Gonadotrophin-releasing hormone; *N*-Methyl-D-aspartate receptor; Insulin-like growth factor-1; Insulin-like growth factor-binding protein 3; GPE or (1–3)IGF-I (Bourguignon, J.-P. (847) 247)

Insulin-like growth factor-binding protein 3
Gonadotrophin-releasing hormone; *N*-Methyl-D-aspartate receptor; Insulin-like growth factor-1; Insulin-like growth factor-binding protein 2; GPE or (1–3)IGF-I (Bourguignon, J.-P. (847) 247)

Insulin-like growth factor-I
Insulin-like growth factor binding protein; Human olfactory epithelium; Idiopathic late onset cerebellar ataxia; Parkinson's disease; Amyotrophic lateral sclerosis (Federico, G. (835) 306)

Insulin receptor
Insulin; SHC; GRB2; Brain; Cerebellum (De L.A. Fernandes, M.L. (826) 74)

Integration
Glutamate; GABA; Striatum; Modulation (Kiyatkin, E.A. (822) 88)

Interaction
CNTF; NGF; Induction; Cortical astrocyte; $p75^{NTR}$; Rat (Semkova, I. (838) 184)

Intercellular adhesion molecule-1
Blood–brain barrier; Endothelial cell; Vascular cell adhesion molecule-1; E-selectin; CD36; Cerebral malaria (Dobbie, M.S. (830) 330)

Intercellular adhesion molecule 1 (ICAM-1)
Cerebral ischemia; Reactive astrocyte; Knockout mouse; Selective neuronal vulnerability; Hippocampus (Kitagawa, K. (847) 166)

Interferon
Neurologic disorder; Transgenic; Astrocyte (Campbell, I.L. (835) 46)

Intergeniculate leaflet
Fos; Jun-B; Circadian rhythm; Suprachiasmatic nucleus (Beaulé, C. (821) 95)

Arousal; Circadian clock; Non-photic entrainment; Reticular formation (Lewandowski, M.H. (827) 139)

Suprachiasmatic nucleus; Fos protein; NPY; Photoperiod; Syrian hamster (Jacob, N. (828) 83)

Serotonin receptor; Suprachiasmatic nucleus; Lateral geniculate nucleus; Raphe nuclei; Circadian rhythm; Aging (Duncan, M.J. (829) 39)

Interleukin-1
Interleukin-6; Lipopolysaccharide; ACTH; Corticosterone; Tryptophan; Serotonin (Wang, J. (815) 337)

Mycoplasma fermentans; Brain; Cytokine; TNFα; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

AMPA; Excitotoxicity; Temperature; Fever; Neurodegeneration; Striatum (Grundy, R.I. (830) 32)

Antichymotrypsin; S100; Butyrylcholinesterase; Nitric oxide synthase; Alzheimer's disease (Hu, J. (842) 46)

CRF; CRF-knockout; Stress; Behavior; Corticosterone (Dunn, A.J. (845) 14)

Interleukin-6
Lipopolysaccharide; Interleukin-1; ACTH; Corticosterone; Tryptophan; Serotonin (Wang, J. (815) 337)

Cytokine; Diagnostic marker; ELISA; Microglia; Tumour necrosis factor-α (Garlind, A. (826) 112)

Amphetamine; Sensitization; Locomotion; Schizophrenia; Stress (Zalcman, S. (847) 276)

Brain endothelial cell; Monkey; Hypoxia (Reyes, T.M. (851) 215)

Interleukin-10
Monocyte/macrophage; Neuroimmunology; Cytokine; Interleukin-1β; Tumor necrosis factor-α (Woiciechowsky, C. (816) 563)

Interleukin-1β
Monocyte/macrophage; Neuroimmunology; Cytokine; Tumor necrosis factor-α; Interleukin-10 (Woiciechowsky, C. (816) 563)

Interleukin-1 receptor antagonist
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Interleukin-6 receptor complex
Tau; gp130; Soluble receptor; Biological marker; ELISA; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

Intermediolateral nucleus
Monoamine oxidase; Sympathetic preganglionic neuron; Noradrenergic neuron; Serotonergic neuron; Parkinson's disease (Yamada, H. (833) 302)

Intermittent administration
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Intermittent hypoxia
c-*fos*; Sympathetic nervous system; Obstructive sleep apnea (Greenberg, H.E. (816) 638)

Interneuron
GABA; Astrocyte; Neocortex; Hippocampus (Yan, X.-X. (816) 317)

Serotonin; Calbindin; Renshaw cell (Carr, P.A. (823) 198)

Hippocampal formation; Astrocyte; Electron microscopy; Septohippocampal pathway; 192 IgG-saporin (Milner, T.A. (831) 322)

Proto-oncogene; Urinary bladder; Nociception (Birder, L.A. (834) 55)

Electron microscopy; Ultrastructure; Hippocampus; Dentate gyrus (Drake, C.T. (849) 203)

Interstimulus interval
Ventral pallidum; Amygdala; Inferior colliculus; Electrical stimulation; Acoustic startle; Prepulse inhibition (Li, L. (836) 164)

Intestine
Heart; Kidney; Liver; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Intoxication sign
Suprachiasmatic nucleus; Acute ethanol treatment; Glial fibrillary acidic protein; Calbindin D28k (Satriotomo, I. (847) 124)

Intracellular
Endoplasmic reticulum; Orthophosphate; SERCA; Calcium homeostasis; Thapsigargin (Parsons, J.T. (834) 32)

Hypoglossal; Protruder; Retractor; Motoneuron; Substance P (Gatti, P.J. (834) 155)

Intracellular Ca^{2+}
Oligodendrocyte; Phorbol ester; Process extension; Protein kinase C; Fura-2 (Yoo, A.S.J. (827) 19)

Intracellular calcium
Neurotoxicity; Glutamate; Sodium channel (Shimojo, M. (815) 131)

Carotid body; Glomus cell; Membrane potential; Hypoxia; Cobalt; Calcium-selective microelectrode; Indo-1/AM (Zhang, X.Q. (818) 118)

Purkinje neuron; Cerebellum; Alcohol; AMPA; Culture (Netzeband, J.G. (826) 270)

Dorsal raphe neuron; Nociceptin; Serotonin; μ-Opioid agonist; Neuropeptide FF (Roumy, M. (845) 208)

Status epilepticus; Calcium; NMDA receptor; Calcium channel; Epilepsy (Pal, S. (851) 20)

Osmotic effect; Hyponatremia; Potassium current; Calcium current; Cell volume (Somjen, G.G. (851) 189)

Intracellular Cl^- concentration
LiCl; Cl^-–ATPase; Cl^--sensitive fluorescent dye (MQAE); Inositol; Hippocampal pyramidal neuron (Yagyu, K. (821) 530)

Intracellular labeling
Medial superior olive; Superior paraolivary nucleus; Prelabeling; Tissue slice; Gerbil (Kuwabara, N. (846) 59)

Intracellular metabolism
Nuclear enzyme; Peptide; Neuropeptide; Endopeptidase; Oligopeptidase (Massarelli, E.E. (851) 261)

Intracellular microelectrophysiology
Barrel cortex; Ventrobasal thalamus; AMPA/KAIN receptor; Co^{2+}-staining (Világi, I. (844) 118)

Intracellular pH
Phosphorus-31 magnetic resonance spectroscopy; Brain energy metabolism; Creatine phosphate; Membrane phospholipid; Photic stimulation (Murashita, J. (818) 72)

Global complete cerebral ischemia; Streptozotocin-induced diabetes; Lactic acidosis; High-energy phosphate; Selective neuronal vulnerability (Hoxworth, J.M. (821) 467)

Ammonium prepulse technique; Epilepsy; Excitability; Hippocampal slice (guinea pig) (Bonnet, U. (840) 16)

Intracellular recording
Auditory midbrain; Biocytin; Brain slice; Synaptic convergence (Reetz, G. (816) 527)

Hippocampus; Acetylcholine; In vitro; Whole cell voltage-clamp recording (Kimura, T. (831) 175)

Chattering; Pyramidal neuron; Motor; Synchronization; Local circuit (Kitagawa, H. (842) 101)

Somatosensory cortex; Visceronociceptive neuron; Neurobiotin labeling; Pain (Jinghong, C. (846) 243)

G-protein; Presynaptic GABA-B receptor; In vitro slice; Pertussis toxin (Phelan, K.D. (847) 308)

Intracellular staining
Calbindin D28k; Substantia gelatinosa; Spinal trigeminal nucleus; Biocytin; Immunohistochemistry; Nociception; Rat (Li, Y.-Q. (840) 179)

Intracerebral dialysis
N-Methyl-D-aspartate; Dopamine; Raphe nuclei; Clomipramine (Pallotta, M. (823) 217)

Intracerebral hemorrhage
Subdural hematoma; Cerebral ischemia; Brain edema; Cerebral blood flow (Patel, T.R. (829) 125)

Intracerebral microdialysis
Presynaptic blocker; Neurotransmitter; Ca^{2+}-dependent; High K^+ (Shi, Y.-L. (850) 173)

Intracerebroventricular
Deprivation; Substance P; Food intake; Alteration (Dib, B. (830) 38)

Melanin concentrating hormone; Appetite; Hypothalamus; Melanocortin receptor (Rossi, M. (846) 164)

Intracerebroventricular administration
Mouse leptin; Food intake; Broiler; White Leghorn (Bungo, T. (817) 196)

Orexin; Drinking behaviour; Fluid homeostasis; Lateral hypothalamus; Subfornical organ (Kunii, K. (842) 256)

Intracerebroventricular infusion
Feeding behavior; Feeding circadian rhythm; Chronic treatment; Blood glucose (Yamanaka, A. (849) 248)

Intracortical inhibition
Paired cortical stimulation; Cortical silent period; Pyramidal tract neuron (Shimizu, T. (834) 74)

Intracranial microdialysis
Dopamine; Fischer 344 rat; D-Amphetamine; Potassium; Basal level; Aging; Striatum (Gerhardt, G.A. (816) 68)

Intracranial self-stimulation (ICSS)
Memantine; MK-801 (dizocilpine); Reward; Lateral hypothalamus; Median forebrain bundle; Curve-shift paradigm; NMDA receptor (Tzschentke, T.M. (845) 192)

Intrathecal
c-Fos expression; Formalin test; Spinal dorsal horn; Descending inhibition; Phentolamine; Cyproheptadine; Naloxone (Liu, R.-J. (830) 183)

Intrathecal injection
Nociceptin; Hyperalgesia; Tachykinin NK_1 receptor antagonist; Spinal cord (Sakurada, C. (841) 85)

Intravenous: fentanyl
Anesthetic; Brain: ischemia, hypoxia, neuropathology, seizure (Kofke, W.A. (818) 326)

Intronic polymorphism
Presenilin-1; Alzheimer's disease (Liao, A. (816) 295)

Invertebrate immune system
Endogenous morphine; Invertebrate nervous system; Trauma response; High performance liquid chromatography; Immunohistochemistry; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

Invertebrate nervous system
Endogenous morphine; Invertebrate immune system; Trauma response; High performance liquid chromatography; Immunohistochemistry; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

In vitro
Rat pineal; Electrophysiology; Neuron-like network (Schenda, J. (823) 231)

Intracellular recording; Hippocampus; Acetylcholine; Whole cell voltage-clamp recording (Kimura, T. (831) 175)

Periaqueductal Gray; Hypoxia; Hypercapnia (Kramer, J.M. (835) 197)

Methotrexate hexaglutamate; NAALADase; 2-PMPA; Neurotoxicity (Thomas, A.G. (843) 48)

In vitro slice
G-protein; Presynaptic GABA-B receptor; Intracellular recording; Pertussis toxin (Phelan, K.D. (847) 308)

In vivo
Auditory cortex; Sleep; Wakefulness; Unitary activity (Peña, J.L. (816) 463)

Olfactory cortex; Voltage-sensitive dye; HDB; MCPO (Rosin, J.-F. (820) 105)

Group I; Metabotropic glutamate; Phosphatidyl inositol hydrolysis; DHPG; CHPG (Johnson, M.P. (821) 539)

Brain; Hypoxia; Microdialysis electrode; Glutamate; Real-time monitoring (Kunimatsu, T. (831) 273)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus (Pavlides, C. (851) 204)

In vivo electrophysiology
Nucleus accumbens; Addiction; Alcohol; Self-administration; Striatum; Basal ganglia; Rat; Ensemble (Janak, P.H. (817) 172)

In vivo microdialysis
MAO B inhibitor; Selegiline; Dopamine; Striatum; Primate (Kaseda, S. (815) 44)

Anesthetic requirement; MAC; Striatum; Dopamine content (Onozawa, H. (817) 192)

GDNF; Dopamine; Striatum; Substantia nigra; Methamphetamine; Neurotrophic factor (Cass, W.A. (827) 104)

Anxiety disorders; Chronic stress; Cold stress; Foot shock; Norepinephrine (Jedema, H.P. (830) 211)

Chronic citalopram treatment; Autoreceptor sensitivity; Dorsal hippocampus; Frontal cortex; Antidepressant; Serotonin (5-HT, 5-hydroxytryptamine) (Hjorth, S. (835) 224)

5-HT autoreceptors; 5-Hydroxytryptamine; Hippocampal formation; Vigilance state plasticity; Raphé–hippocampal system (Mokler, D.J. (838) 95)

Dopamine release; Ipsapirone; *S*(−)-pindolol; $5\text{-}HT_{1A}$ receptor; Nucleus accumbens and striatum; Rat (Ichikawa, J. (842) 445)

Monoamine; Dopamine; Anoxia; Indomethacin; Immature brain (Ogasawara, M. (842) 487)

Iodo-antipyrine
Cerebral blood flow; Monoamine oxidase; Phenylethylamine; Autoradiography; Mouse (Scremin, O.U. (824) 36)

Iodoantipyrine
Cerebral blood flow; Tracer diffusion; Autoradiography (Greenberg, J.H. (842) 184)

Iodoantipyrine autoradiography
5-HT reuptake blockade; 2-Deoxyglucose autoradiography; Citalopram (McBean, D.E. (847) 80)

Ion channel
Second messenger; Phosphorylation; Whole-cell voltage-clamp (Vargas, G. (828) 169)

Ionotropic glutamate receptor
Respiration; Excitatory amino acid; Metabotropic glutamate receptor; Lamprey; Control of breathing (Bongianni, F. (826) 298)

Ion substitution
Cerebral ischemia; Amino acid release; Swelling; Volume regulation; Glutamate; GABA; Taurine; Osmotic stress (Phillis, J.W. (828) 1)

Ion transport
Gap junction; Endolymphatic potential; Fibrocyte; Spiral ligament; Stria vascularis (Xia, A.-P. (846) 106)

IP_3
Vomeronasal organ; cAMP; Urine; G_i; G_o (Sasaki, K. (823) 161)

Ipsapirone
Dopamine release; *S*(−)-pindolol; 5-HT_{1A} receptor; Nucleus accumbens and striatum; In vivo microdialysis; Rat (Ichikawa, J. (842) 445)

IPSC
Substantia nigra pars reticulata; GABA; Tiagabine; CGP55845A (Chan, P.K.Y. (838) 18)

Iron
Oligodendrocytes; Myelination; Ferritin; Stress-regulated protein (Cho, S.S. (816) 229)

Multiple sclerosis; Ferritin; Transferrin; Cerebrospinal fluid (LeVine, S.M. (821) 511)

Oxidative stress; Hydroxyl radical; Immediate early gene; c-*fos*; Parkinson's disease (Hironishi, M. (828) 145)

Manganese; Cerebrospinal fluid; Transferrin receptor; Glutamine synthetase; Choroid plexus (Zheng, W. (833) 125)

Aluminum; Ferrous ion; β-Amyloid; Ascorbic acid; Free radical; Alzheimer's disease; Bathophenanthroline (Yang, E.Y. (839) 221)

Irreversible antagonist
5-HT transporter; 5-HT reuptake; Turnover; Cocaine; Dopamine transporter (Vicentic, A. (841) 1)

Irritation
Oral; Lingual; Calcium imaging; Paresthesia; Trigeminal (Bryant, B.P. (842) 452)

[^{125}I]Sar^1-Ang II
Angiotensin II receptor expression; In situ hybridization; Receptor autoradiography; Hypoxia; Cerebral blood flow; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Ischaemic preconditioning
Organotypic culture; Hippocampus; Heat shock protein; Excitotoxicity (Pringle, A.K. (845) 152)

Ischemia
Apoptosis; Bax; Retina; Terminal deoxynucleotidyl-transferase-mediated dUTP nick end-labeling (TUNEL) (Kaneda, K. (815) 11)

Creatine; Phosphocreatine; Hypoxia; Anoxic depolarization; Protection; Neuronal damage (Balestrino, M. (816) 124)

Anoxia; Glutamate; AMPA; NMDA; Neuroprotection (Arias, R.L. (816) 299)

Cell culture; Excitotoxicity; Glutamate; Hypoglycemia; Neurotoxicity (Regan, R.F. (817) 145)

Hypoxia; Aggregate cell culture; GABAergic interneuron; Cholinergic neuron; Selective vulnerability (Pardo, B. (818) 84)

Hypoxia; Ketamine; Neonatal; Rat; Hippocampus (Spandou, E. (819) 1)

Mitochondria; Brain; Development; Reactive oxygen species (Keelan, J. (821) 124)

Glutamate; *N*-methyl-D-aspartate; Neuronal death; Ganglion neurons (Yoon, Y.H. (823) 33)

Telencephalon; Microdialysis; Fish; Hypoxia; *Carassius carassius* L.; GABA; Glutamate; Aspartate; Taurine; Metabolic depression (Hylland, P. (823) 49)

Adenosine 5′-triphosphate; Adenosine; Nitric oxide (Jurányi, Z. (823) 183)

Hypoxia; HSP70; p38 MAP kinase; Astrocyte (Uehara, T. (823) 226)

Neuroprotection; Rat; Hypothermia; Peripheral nerve (Mitsui, Y. (827) 63)

Extracellular potassium concentrations; Slow voltage variation; Brain damage; Rose bengal; Trolox; Membrane permeability; Chick retina (Netto, M. (827) 221)

Calcineurin; Hippocampus; Phosphatase 2A (Morioka, M. (828) 135)

Adenosine; Anoxia; Tolerance; Hippocampus (Pérez-Pinzón, M.A. (833) 20)

8-OHdG; Oxidative DNA damage; Immunohistochemistry; Gerbil; Hippocampus (Won, M.H. (836) 70)

Diabetic neuropathy; Axonal degeneration (Zochodne, D.W. (838) 11)

Na^+,K^+ATPase; Ouabain; Spreading depression; Hypoxia; Hippocampus; Brain slice (Balestrino, M. (838) 37)

Neurotrophin-3; MCAO; TUNEL; Caspase-3; HSP72 (Zhang, W.R. (842) 211)

Hypothermia; Hyperthermia; Anoxia; Sodium; Potassium; ATP (Amorim, P. (844) 143)

TNF-α; IL-1β; Reperfusion; Nerve; Cytokines (Mitsui, Y. (844) 192)

Acute subdural hematoma; Rat; Serotonin 5-HT_{1A} agonist; BAY X3702; Neuroprotection (Alessandri, B. (845) 232)

Free radical scavenger; Water maze; Behavior (Pazos, A.J. (846) 186)

Rat; Brain; Norepinephrine; Microdialysis; Histology (Nellgård, B.M.G. (847) 262)

Hyperglycemia; Hypercapnia; Acidosis; Rat; Protein kinase C; Ca^{2+}/calmodulin kinase II (Katsura, K.-i. (849) 119)

Ascorbic acid; Oxidative stress; Torpor; Arctic ground squirrel; 13-lined ground squirrel (Drew, K.L. (851) 1)

Ischemia–reperfusion
21-Aminosteroid; Antioxidant; Neuroprotection; Oxygen free radical; Pyrrolopyrimidine (Schmid-Elsaesser, R. (816) 471)

Cathepsin L; Acid phosphatase; Cerebral; Penumbra (İşlekel, H. (843) 18)

Ischemia / reperfusion
Trail; CD95-L; TNF-α; c-*jun*; Necrosis; FADD (Herr, I. (826) 210)

Ischemic depolarization
Focal cerebral ischemia; Reperfusion; Cortical spreading depression; Magnetic resonance imaging; Rat brain (Dijkhuizen, R.M. (840) 194)

Ischemic preconditioning
Oxygen–glucose deprivation; Calcium; Protein kinase C; Mitogen-activated protein kinase; Cortical neuron (Tauskela, J.S. (827) 143)

Ischemic tolerance
Nitric oxide; Mitochondria; Neuropathology; Hippocampus (Centeno, J.M. (836) 62)

ISEL
Neurodegeneration; TUNEL assay; Klenow assay; Cell death; Hippocampus (Adamec, E. (849) 67)

Islands of Calleja
PD 128907; Dopamine D_3 receptor; Binding affinity; Basal ganglia; Caudate–putamen (Hillefors, M. (822) 126)

Isoflurane
Inhaled anesthetic; Benzodiazepine; Mechanism of action; Reduced sensitivity; Tolerance (Flaishon, R. (815) 287)

Volatile anesthetic; Halothane; Ca channel; Ca current; Xenopus oocyte (Kamatchi, G.L. (831) 85)

Dopamine transporter; Dopamine D_2 receptor; Positron emission tomography; Microdialysis; Monkey brain (Tsukada, H. (849) 85)

Isoguvacine
GABA; NMDA; Dopamine; Burst; Basal ganglia (Paladini, C.A. (832) 145)

Isolated guinea pig brain
Entorhinal cortex; Optical imaging; Piriform cortex; Voltage-sensitive dyes (De Curtis, M. (837) 314)

Isolated muscle spindle
Primary ending; Secondary ending; Temperature coefficient; Ramp-and-hold stretch; Adaptation (Fischer, M. (840) 1)

Isolation rearing
Rat; Locomotor activity; Prepulse inhibition; Startle; Synaptophysin; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Isoniazid
Black-Gold; Myelin; Demyelination; Kainic acid; 3-Nitropropionic acid; Domoic acid (Schmued, L. (837) 289)

I.V. self-administration
Cocaine; Tissue plasminogen activator; Synaptic plasticity; Prefrontal cortex; Transgenic mice (Ripley, T.L. (826) 117)

J

Jackknife procedure
Tau; gp130; Interleukin-6 receptor complex; Soluble receptor; Biological marker; ELISA; Discriminant analysis (Hampel, H. (823) 104)

Jaw muscle
Temporomandibular joint; Mustard oil; Trigeminal subnucleus caudalis; Ibotenic acid; Nociceptive reflex (Tsai, C.-M. (826) 293)

Jimpy
Calcium; Oligodendrocyte; Apoptosis; Myelin; Proteolipid protein; DM-20 protein; Fura-2 (Knapp, P.E. (847) 332)

Jimpy ice
Oligodendrocyte; Demyelination; Remyelination; Galactocerebroside; Sulfatide (Cammer, W. (837) 188)

Jugular ganglion
Calbindin D-28k; Calcitonin-gene related peptide; Nodose ganglion; Parvalbumin; Petrosal ganglion; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

c-Jun
Kainic acid; Phosphorylation; Cyclooxygenase; Neuronal apoptosis; Oxidative stress (Matsuoka, Y. (836) 213)

c-Jun-activated protein kinase
Long-term potentiation; Neuropeptide Y; Dentate gyrus; Glutamate release (Whittaker, E. (827) 229)

Jun-B
Fos; Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet (Beaulé, C. (821) 95)

Opioid; c-Fos; Chronic (Frankel, P.S. (835) 204)

JunB
Morphine; C-Fos; Serotonin; Dorsal raphe nucleus; β-FNA (Frankel, P.S. (842) 220)

JunB-glial fibrillary acidic protein
Cerebral ischemia; Immediate early gene; Neuronal death; Hippocampus; Gene expression (Whitfield, P.C. (818) 450)

Juvenile isolation
Social play behavior; Play period; Social interaction test; Autoradiography; Opioid receptor mapping; [^{3}H]-Diprenorphine (Van den Berg, C.L. (830) 16)

Juvenile rat
NGF antibody; M1 receptor; Binding; Hippocampus; Development (Rosati, A.M. (815) 185)

K

K^+
Stroke; Hydrogen clearance; Hypothermia; Hyperthermia; Infarction (Sick, T.J. (821) 400)

Kainate
AMPA; Barbiturate anesthesia; 2,3-Benzodiazepine; Excitatory amino acid; Ketamine (Ruiz, A. (818) 421)

Apoptosis; Necrosis; Cerebellar granule cells; Calcium; Voltage-gated calcium channel (Leski, M.L. (828) 27)

Alzheimer; Apoptosis; Calorie restriction; Excitotoxicity; Hydroxynonenal; Oxidative stress (Zhu, H. (842) 224)

Kainate-treated rat
Epilepsy model; Hippocampal slice; Oxidative phosphorylation; Calcium cycling (Kunz, W.S. (826) 236)

Kainic acid
Mouse; Inbred strain; Cognition; Excitotoxicity (Royle, S.J. (816) 337)

Hypothermia; Limbic seizure; Autoradiography (Maeda, T. (818) 228)

Dextromethorphan; Neuroprotection; Hippocampus; Activator protein-1; Fos-related antigen (Kim, H.-C. (824) 125)

Oligodendrocyte; Serine protease (Tomizawa, K. (824) 308)

Hypoxia preconditioning; Status epilepticus; Seizure; Brain edema; Specific gravity (Emerson, M.R. (825) 189)

Trimetazidine; Neurotoxicity; Cochlea; Electrophysiology (Gil-Loyzaga, P. (826) 95)

c-Jun; Phosphorylation; Cyclooxygenase; Neuronal apoptosis; Oxidative stress (Matsuoka, Y. (836) 213)

Black-Gold; Myelin; Demyelination; 3-Nitropropionic acid; Isoniazid; Domoic acid (Schmued, L. (837) 289)

Nitric oxide; Glutamate; 7-Nitroindazole; Microdialysis; Hippocampus (Alabadí, J.A. (839) 305)

AMPA; NBQX; Propidium iodide; Neocortex; Striatum (Kristensen, B.W. (841) 143)

N-tert-Butyl-α-phenylnitrone; Diisopropylphosphorofluoridate; Physostigmine salicylate; Pilocarpine hydrochloride; Seizures; Rat (Zivin, M. (850) 63)

Kainic acid-induced seizure
Cyclooxygenase-2 inhibitor; Hippocampus; TUNEL-positive neuronal death; Prostaglandin (Baik, E.J. (843) 118)

Kappa
Opioid; Analgesia; Antisense mapping; Kappa$_1$ receptor; Dynorphin B; α-Neoendorphin (Pasternak, K.R. (826) 289)

Kappa-opioid receptor
Opiate; Voltage-dependent calcium channel; Transmitter release; NMB neuroblastoma cell line (Keren, O. (843) 193)

Kappa$_1$ receptor
Kappa; Opioid; Analgesia; Antisense mapping; Dynorphin B; α-Neoendorphin (Pasternak, K.R. (826) 289)

K_{Ca} channel
Rat cerebellum; Charybdotoxin; Noxiustoxin; *Androctonus australis* Hector; Scorpion venom (Ottolia, M. (815) 410)

K^+ channel
Cat adrenal chromaffin cells; Cd^{2+}; Co^{2+}; Depolarization (Sorimachi, M. (832) 23)

K^+-conductance
Molluscan neuropeptide; MIP; Cl^--conductance (Kiss, T. (830) 258)

Ketamine
AMPA; Barbiturate anesthesia; 2,3-Benzodiazepine; Excitatory amino acid; Kainate (Ruiz, A. (818) 421)

Hypoxia; Ischemia; Neonatal; Rat; Hippocampus (Spandou, E. (819) 1)

Physostigmine; Medial prefrontal cortex; Noradrenaline; Rat (Kubota, T. (840) 175)

Anesthesia; Luteinizing hormone; Gonadotrophin-releasing hormone; Pulse generator; Electrophysiology; Thermoregulation; Telemetry (Goubillon, M.-L. (841) 197)

Schizophrenia; Amphetamine; MK-801; NMDA; Animal model; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Ketanserin
VMN; Serotonin; MDL 100,907; SB 206553; DOI (Wolf, A. (825) 146)

Kidney
Heart; Liver; Intestine; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Heart; Liver; Myocardial infarction; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Kinaesthesia
Muscle spindle; Fusimotor; Contraction; Stretch; Sensation (Wise, A.K. (821) 87)

Kindling
Epilepsy; G protein; G_{i2} mRNA; G_s mRNA; Signal transduction system (Iwasa, H. (818) 570)

Rat; Enadoline; κ-Opioid receptor; Pentylenetetrazol; Seizure; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Polyamine; *N*-Acetylpolyamine; γ-Aminobutyric acid; Seizure; Pentylenetetrazol (Hayashi, Y. (828) 184)

Estradiol; Progesterone; Corticosterone; Threshold (Edwards, H.E. (838) 136)

Stress; Predator; Corticosterone; Norepinephrine; Dopamine; Serotonin; Limbic excitability (McIntyre, D.C. (840) 65)

GLAST; Knockout mice; Pentylenetetrazole; Secondary generalized epilepsy; Primary generalized epilepsy (Watanabe, T. (845) 92)

Pentylenetetrazol (PTZ); Seizure; Free hydroxyl radical; Salicylate trapping (Rauca, C. (847) 347)

Kindling model
Testosterone; Estradiol; Dihydrotestosterone; Flutamide; Aromatase inhibitor (Edwards, H.E. (838) 151)

Kinesin
Axonal transport; SOD1; Transgenic mouse; Dynein; ALS (Warita, H. (819) 120)

Kinetic
5-HT-moduline; Serotonin; Stress; 5-HT_{1B} receptor (Bonnin, A. (825) 152)

Kir6.2
Antisense; Potassium ATP channel; 6-Hydroxydopamine; Globus pallidus; Apomorphine (Lamensdorf, I. (818) 275)

Klenow assay
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KN93
Parkinson's disease; 6-Hydroxydopamine lesion; Basal ganglia; NMDA antagonist; Motor response alterations (Oh, J.D. (821) 433)

Knockout
Corpus callosum; ES cell; 129 mouse; C57 mouse; Spatial learning; Non-spatial learning (Balogh, S.A. (836) 38)

Metals; Amyloid precursor protein; Copper; Oxidative stress (White, A.R. (842) 439)

κ-Knockout
Knockout mouse; KOR gene; Opioid receptor; μ-Receptor; δ-Receptor; κ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

Knockout mice
Dystrophin; Dp71; Reporter gene (Lumeng, C.N. (830) 174)

GLAST; Kindling; Pentylenetetrazole; Secondary generalized epilepsy; Primary generalized epilepsy (Watanabe, T. (845) 92)

Knockout mouse
κ-Knockout; KOR gene; Opioid receptor; μ-Receptor; δ-Receptor; κ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

Intercellular adhesion molecule 1 (ICAM-1); Cerebral ischemia; Reactive astrocyte; Selective neuronal vulnerability; Hippocampus (Kitagawa, K. (847) 166)

Nociceptin receptor; Learning and memory; κ3-Opioid receptor; NalBzoH (Nabeshima, T. (848) 167)

Knock-out mouse
Aggression; MAO-deficient mouse; Monoamine oxidase; VMAT2; 5-HT_{2A} receptor (Shih, J.C. (835) 104)

Kölliker–Fuse nucleus
Nucleus ambiguus; Parabrachial nucleus; Biotinylated dextran amine; Cholera toxin; Swallowing (Hayakawa, T. (816) 364)

κ-opioid receptor
Morphine withdrawal; Electroacupuncture; Analgesia; Dynorphin (Wu, L.-Z. (851) 290)

KOR gene
κ-Knockout; Knockout mouse; Opioid receptor; μ-Receptor; δ-Receptor; κ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

Kv1.4 potassium channel
4-Aminopyridine; Fast inactivation gate; L4 heptad leucine; Mutagenesis; N-terminus deletion (Judge, S.I.V. (831) 43)

L

L-701
Glycine site antagonist; GV150526A; 324; ACEA1021; LY293558; Cerebral ischaemia; Gerbil; Neuroprotection (Hicks, C.A. (819) 65)

Labyrinthectomy
Inducible transcription factor; Antisense phosphorothioate oligonucleotides; Prepositus hypoglossus; Posture; Movement (Kaufman, G.D. (817) 246)

Vestibular compensation; Protein kinase C; Cerebellum; Purkinje cell; Signal transduction protein (Balaban, C.D. (845) 97)

Lactate
Ethanol; Brain injury; Shock (Zink, B.J. (837) 1)

Lactate dehydrogenase
SH-SY5Y human neuroblastoma cell; 24-Hydroxycholesterol; Calcium; ROS (Kölsch, H. (818) 171)

Apoptosis; Microglia; Müller cell; Photoreceptor cell; Necrosis; Nick-end labeling; Retinal degeneration (Roque, R.S. (836) 110)

Lactation
Neuropeptide Y; Suckling; Arcuate nucleus; Retrograde tracing (Li, C. (824) 267)

Fos; Milk ejection; Magnocellular nuclei; Nitric oxide synthase; Oxytocin (Okere, C.O. (828) 104)

Maternal behavior; Progesterone; Medial preoptic area; Medial hypothalamus; RU 486; Pregnancy (Numan, M. (830) 358)

Lactic acid
Striatum; Dopamine; Glutamate; NMDA receptors; Hydroxyl radicals (Remblier, C. (837) 22)

Free fatty acid; Subarachnoid hemorrhage (Gewirtz, R.J. (840) 84)

Lactic acidosis
Global complete cerebral ischemia; Streptozotocin-induced diabetes; Intracellular pH; High-energy phosphate; Selective neuronal vulnerability (Hoxworth, J.M. (821) 467)

Lactotroph
Rat; Pituitary; Cannabinoid; Vasoactive intestinal peptide (VIP); Prolactin; CAMP; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Lamina
Immunohistochemistry; Serotonin; Insect; Praying mantis; Optic lobe (Leitinger, G. (823) 11)

Lamprey
Respiration; Excitatory amino acid; Ionotropic glutamate receptor; Metabotropic glutamate receptor; Control of breathing (Bongianni, F. (826) 298)

Calcium channel; $GABA_B$ receptor; Presynaptic inhibition; Sensory transmission (Bussières, N. (847) 175)

Laryngeal nerve
Phrenic nerve; Respiratory regulation; Sudden infant death syndrome; Spectral analysis; Development (Kocsis, B. (818) 180)

Laser Doppler flowmetry
Focal cerebral ischemia; Middle cerebral artery occlusion; Neuroprotection; Immunohistochemistry; Poly(ADP-ribose) polymerase; Rat (Takahashi, K. (829) 46)

Focal cerebral ischemia; Reperfusion; Endothelin; FR139317; Rat (Henshall, D.C. (843) 105)

Laser-Doppler flowmetry
Sciatic nerve; Somatosensory cortex (Ngai, A.C. (837) 221)

Laser scan confocal microscopy
G-protein coupled receptor; Basal ganglia; Medium spiny neuron; Striatal interneuron; Immunocytochemistry (Yung, K.K.L. (830) 345)

Laser-scanning confocal microscopy
Three-dimensional image analysis; Triple fluorescent labeling; Cerebral microvascular plasma perfusion; GFAP; MAP2; Embolic stroke (Zhang, Z.G. (844) 55)

Late component
Potentiation; Olfactory cortex; Piriform cortex; Olfactory bulb; Lateral olfactory tract; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

Latent inhibition
Acoustic startle response; Fear-potentiated startle; Nucleus basalis magnocellularis; Prepulse inhibition; Schizophrenia (Schauz, C. (815) 98)

Lateral cerebellar nucleus
Phosphorylated tau; Anti-phosphorylated tau antibody; Age-related change; Facial nucleus; Groggy rat (Takeuchi, I.K. (831) 292)

Lateral collateral pathway
Urinary bladder inflammation; Neurotrophic factor; Dorsal root ganglia; Spinal cord; Sacral parasympathetic nucleus (Vizzard, M.A. (844) 174)

Lateral geniculate nucleus
Serotonin receptor; Suprachiasmatic nucleus; Intergeniculate leaflet; Raphe nuclei; Circadian rhythm; Aging (Duncan, M.J. (829) 39)

Ventrobasal thalamus; Nitric oxide; Sensory system; Guanylate cyclase; Cyclic GMP (Shaw, P.J. (833) 272)

Estrogen receptor; Progesterone receptor; In situ hybridization histochemistry (Horvath, T.L. (844) 196)

Visuomotor; Reticular formation; Orienting movement; Saccade (Billet, S. (847) 121)

Lateral hypothalamus
Paraventricular; Ingestive behavior; Neuropeptide (Kay-Nishiyama, C. (822) 251)

Nucleus accumbens shell; Bicuculline; Feeding behavior (Stratford, T.R. (825) 199)

Orexin; Intracerebroventricular administration; Drinking behaviour; Fluid homeostasis; Subfornical organ (Kunii, K. (842) 256)

Intracranial self-stimulation (ICSS); Memantine; MK-801 (dizocilpine); Reward; Median forebrain bundle; Curve-shift paradigm; NMDA receptor (Tzschentke, T.M. (845) 192)

Laterality
Handedness; Hand preference; Motor cortex; Human asymmetry (Triggs, W.J. (835) 324)

Lateral lemniscal nuclei
Dynorphin; Corticotropin-releasing factor; Glutamate decarboxylase; Retrograde fluorescent labeling; Acoustic stimulation (Ueyama, T. (849) 220)

Lateral olfactory tract
Potentiation; Late component; Olfactory cortex; Piriform cortex; Olfactory bulb; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

Lateral roll tilt
Medial vestibular nucleus; Acetylcholine; Glutamate; Rat (Takeshita, S. (840) 99)

Lateral septum
Stress; Immediate early gene; c-*fos*; Learned helplessness (Steciuk, M. (822) 256)

Neurosteroid; Anxiolytic; Hippocampus; Elevated plus-maze; Defensive burying test (Bitran, D. (850) 217)

Lateral terminal nucleus
Calcitonin gene-related peptide; GABA; Retinal axon terminal; Dorsal terminal nucleus; Medial terminal nucleus; Calcium binding protein (Zhou, J. (838) 119)

Lateral thalamus
Visceroception; Nociception; Viscerovisceral convergence; Viscerosomatic convergence (Horn, A.C. (851) 164)

Layer III pyramidal neuron
(−) Deprenyl; Monkey prefrontal cortex; Dendritic arborization; Golgi staining; Neural plasticity (Shankaranarayana Rao, B.S. (821) 218)

Lead
Long-term depression; Hippocampal slice; Range of synaptic plasticity; Rat (Zhao, W.-F. (818) 153)

Learned helplessness
Stress; Immediate early gene; c-*fos*; Lateral septum (Steciuk, M. (822) 256)

Learned motor performance
Sensorimotor information processing; Motor control; Initiation of movement; Electromyographic analysis of behavior (Woody, C.D. (836) 79)

Learning
Behavior; Beta amyloid (O'Hare, E. (815) 1)

Rat; Enadoline; κ-Opioid receptor; Pentylenetetrazol; Seizure; Kindling; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Bcl-2; Transgenic mouse; Neuron; Maze; Behavior (Coleman, G.J. (832) 188)

Cerebellum; Deep nuclei; Plasticity; Inhibition (Freeman Jr., J.H. (833) 225)

ERα; ERβ; Reproduction; Memory (Rissman, E.F. (835) 80)

Plasticity; Cochlear nuclei; Habituation; Memory (Kandiel, A. (839) 292)

Nucleus tractus solitarius; c-Fos; Lithium chloride; Aversion conditioning; Amygdala (Cubero, I. (839) 323)

TNF-α; Transgenic mice; Inflammation; Cytokine; Behavior; Demyelination; CNS inflammation (Aloe, L. (840) 125)

Behavior; Thyroid hormone; Congenital hypothyroidism (MacNabb, C. (847) 231)

Learning and memory
Mastication; Aging; Hippocampus; Neuronal degeneration (Onozuka, M. (826) 148)

Trihexyphenidyl; Biperiden; Passive avoidance; Scatchard analysis; Exchange assay (Kimura, Y. (834) 6)

Nociceptin receptor; Knockout mouse; κ3-Opioid receptor; NalBzoH (Nabeshima, T. (848) 167)

Learning and memory impairment
Brain-derived neurotrophic factor; Morris water maze (Mu, J.-S. (835) 259)

Learning disability
Neurofibromatosis; *NF1*; Astrocyte; Gliosis; Ras; Mouse; Neurofibromin (Rizvi, T.A. (816) 111)

Lectin
Sprouting; Axotomy; Spinal cord; Dorsal column nuclei; Dorsal root ganglion (Shortland, P. (815) 206)

Microglia; Optic nerve; Retina; Teleost (Jimeno, D. (816) 175)

Transdifferentiation; β-galactoside; Ototoxicity; Cochlea; Rat (Bartolomé, M.V. (822) 43)

Lentivirus
Neurotoxicity; Maedi Visna virus; Human immunodeficiency virus; Tat peptides; Rat (Starling, I. (830) 285)

Leptin
Hypothalamic paraventricular nucleus; Spinal cord; Fos immunoreactivity (Badoer, E. (844) 210)

Fasting; Nitric oxide synthase; Thyrotropin-releasing hormone; Corticotropin-releasing hormone; In situ hybridization histochemistry (Isse, T. (846) 229)

Leptin receptor
Hypothalamus; Neuropeptide Y; Proopiomelanocortin; Food intake (Baskin, D.G. (828) 154)

Leptomeningeal melanoma
Neural crest; Neuroendocrine differentiation; Neurofilament; Retinoic acid (Sorrentino, G. (827) 205)

Lesion-induced plasticity
Retinotectal pathway; Retinal lesion; Antidepressant; Serotonin reuptake inhibitor; Fluoxetine; 5-HT (Bastos, E.F. (824) 28)

[Leu^{31},Pro^{34}]neuropeptide Y
NPY; Neuropeptide Y-(13-36); PYY-(3-36); N^G-monomethyl-L-arginine (L-NMMA); Nitric oxide (Bitran, M. (851) 87)

Lewis
Morphine; Self-administration; Proenkephalin; Striatum; Nucleus accumbens; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Lewy body
NACP; Synuclein; Tau; Filament aggregation; Neuronal degeneration (Arima, K. (843) 53)

LFA-1
Neuron–microglia interaction; Immunoglobulin superfamily; Microglial cell line; Neurodegenerative disease (Mizuno, T. (849) 58)

L4 heptad leucine
4-Aminopyridine; Kv1.4 potassium channel; Fast inactivation gate; Mutagenesis; N-terminus deletion (Judge, S.I.V. (831) 43)

LHRH
Gonadotropin releasing hormone; Immunocytochemistry; Puberty (Richardson, H.N. (817) 232)

LiCl
Cl^-–ATPase; Cl^--sensitive fluorescent dye (MQAE); Inositol; Intracellular Cl^- concentration; Hippocampal pyramidal neuron (Yagyu, K. (821) 530)

Lidocaine
Median raphe nucleus; Passive avoidance; Reversible inactivation (Sarihi, A. (817) 59)

Cerebral ischemia; Seizure; GABA; NMDA; Pentylenetetrazol (Kim, D.-C. (831) 131)

8-OH-DPAT; Serotonin; Nucleus raphe magnus; O_2 consumption; EMG (Berner, N.J. (831) 155)

Ligand-gated channels
Chemosensory neurons; Patch clamp; 5-HT_3 receptors (Zhong, H. (816) 544)

Light adaptation
Classical conditioning; Calcium-induced calcium release; Ryanodine receptor; Photoreceptor; Associative learning (Blackwell, K.T. (822) 114)

Limbic cortex
Anterior cingulate cortex; Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Limbic excitability
Stress; Predator; Corticosterone; Norepinephrine; Dopamine; Serotonin; Kindling (McIntyre, D.C. (840) 65)

Limbic-like seizure
Epilepsy; Ihara epileptic rat; Mossy fiber sprouting; Neuronal plasticity (Amano, S. (834) 214)

Limbic seizure
Hypothermia; Kainic acid; Autoradiography (Maeda, T. (818) 228)

Limbic structure
Arginine^8–vasopressin; Memory consolidation; Fos-protein; Immunocytochemistry; Mouse brain (Paban, V. (825) 115)

Limbic system
Cardiovascular regulation; Noradrenaline; Alpha-adrenergic receptor; Beta-adrenergic receptor (Roder, S. (818) 531)

Schizophrenia; Ketamine; Amphetamine; MK-801; NMDA; Animal model; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Development; Glucocorticoid receptor; Mineralocorticoid receptor; Hypothalamo-pituitary-adrenal (HPA) axis; Nutrition; Fetus; Guinea pig (Lingas, R. (846) 236)

Dexamethasone; Glucocorticoid; Development; Glucocorticoid receptor; Mineralocorticoid receptor; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

Limbus
Cornea; Epithelium; Wound healing; DNA synthesis; Cell migration; Conjunctiva (Zagon, I.S. (822) 149)

Cornea; DNA synthesis; Epithelium; Wound healing; Cell migration; Conjunctiva (Zagon, I.S. (839) 243)

Limoge's current
Transcranial electrical stimulation; Potentiation; Righting reflex; Droperidol (Robert, C. (822) 132)

13-lined ground squirrel
Ascorbic acid; Ischemia; Oxidative stress; Torpor; Arctic ground squirrel (Drew, K.L. (851) 1)

Lingual
Oral; Calcium imaging; Paresthesia; Trigeminal; Irritation (Bryant, B.P. (842) 452)

Linsidomine
Nitric oxide (NO); SNAP; SNOG; Sodium nitroprusside; L-NAME; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

Lipid peroxidation
Indole acids; Glutathione; Neurodegeneration; Neuroprotection; Striatum (Poeggeler, B. (815) 382)

Newborn; Brain; NMDA receptor; CPP; Free radical (Fritz, K.I. (816) 438)

Neural transplantation; Oxidative stress; Dopamine; Parkinson's disease; Anesthesia (Karlsson, J. (821) 546)

Lipolysis
Background metabolism; Respiratory quotient; Body weight; Obesity (Ruffin, M.-P. (846) 23)

Lipopolysaccharide
Rat; Brain inflammation; Nonsteroidal anti-inflammatory drug (NSAID); Microglia; Alzheimer's disease (Hauss-Wegrzyniak, B. (815) 36)

Interleukin-6; Interleukin-1; ACTH; Corticosterone; Tryptophan; Serotonin (Wang, J. (815) 337)

Norepinephrine; Dopamine; Serotonin; Corticosterone; ACTH; Anxiety; Exploration (Lacosta, S. (818) 291)

Interleukin-1 receptor antagonist; Hypothalamus; Brain; Catecholamine; Serotonin (MohanKumar, S.M.J. (824) 232)

Cytochrome P450; Central nervous system inflammation (Renton, K.W. (842) 139)

Ca(2 +)-calmodulin-dependent protein kinase; Nitric-oxide synthase; Signal transduction; Phosphorylation; NF-kappa B; CREB (Mirzoeva, S. (844) 126)

Liposome
Calpain; Transient forebrain cerebral ischemia; Calpain inhibitor; Hippocampus (Yokota, M. (819) 8)

Lithium
Rubidium; Escape deficit; Stress; Dopamine; Microdialysis (Gambarana, C. (826) 200)

Lithium chloride
Nucleus tractus solitarius; c-Fos; Learning; Aversion conditioning; Amygdala (Cubero, I. (839) 323)

Liver
Heart; Kidney; Intestine; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Heart; Kidney; Myocardial infarction; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Melanotransferrin; Brain; Alzheimer's disease; mRNA (Yamada, T. (845) 1)

Ascorbate; α-Tocopherol; Brain; Heart, plasma (Martin, A. (845) 50)

Load
Insect; Posture; Mechanoreceptor (Zill „ S.N. (822) 271)

Lobster
Central pattern generators; Proctolin; Cotransmitter; Crustacean cardioactive peptide (Marder, E. (848) 35)

Local anesthetic
Cobalt chloride; Tetracaine; Nucleus raphe magnus; Nucleus gigantocellularis pars α; Dorsolateral pontine tegmentum (Nuseir, K. (822) 1)

Local cerebral glucose utilization
Glut1; Glut3; Immunostaining; Autoradiography (Duelli, R. (831) 254)

Local circuit
Chattering; Pyramidal neuron; Motor; Synchronization; Intracellular recording (Kitagawa, H. (842) 101)

Local field potential
Slug; Mollusc; Tentacles; Tentacular digits; Olfaction (Ito, I. (815) 121)

Localization
Opioid-binding cell adhesion molecule; OB-CAM; Adult rat; Distribution; Immunostaining (Hachisuka, A. (842) 482)

Locomotion
Reflex; Presynaptic inhibition; Strychnine; Development (Jiang, Z. (816) 493)

Reflex control; Muscle spindle (Murphy, P.R. (821) 38)

Primary afferent depolarization; Dorsal root reflex; Spinal cord; Cat (Gossard, J.-P. (825) 132)

Amphetamine; Sensitization; Gamma-aminobutyric acid; $GABA_A$ receptor; Prefrontal cortex (Gruen, R.J. (825) 180)

Hippocampal CA1; Gamma wave; Medial septum; Temporal lobe seizure; Psychomotor behavior (Ma, J. (833) 51)

Antidromic discharge; Dorsal root afferent; Cat; Presynaptic inhibition (Beloozerova, I. (846) 87)

Interleukin-6; Amphetamine; Sensitization; Schizophrenia; Stress (Zalcman, S. (847) 276)

Locomotor activity
Glutamate reuptake blocker; L-PDC; Excitatory amino acid; Nucleus accumbens (Kim, J.-H. (819) 165)

Dimemorfan; Dextromethorphan; Dextrorphan; Sigma receptor; PCP receptor; Anticonvulsant (Chou, Y.-C. (821) 516)

Emotional stress; Communication box; Corticotropin-releasing factor; Corticotropin-releasing factor receptor antagonist; Feeding behavior (Hotta, M. (823) 221)

Isolation rearing; Rat; Prepulse inhibition; Startle; Synaptophysin; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Ibotenic acid; Voltammetry; Perinatal anoxia; Medial prefrontal cortex; Schizophrenia (Brake, W.G. (831) 25)

MK-801; Sensitization; Cocaine (O'Neill, M.F. (834) 103)

Behavioral organization; 129/SvJ mice; C57BL/6J mice (Paulus, M.P. (835) 27)

Cocaine; Sensitization; Strain difference; Sex difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat; Spontaneous hypertensive rat (Cailhol, S. (842) 200)

Locomotor activity behavior
Medial prefrontal cortex; Brain asymmetry; Dopamine; 6-Hydroxydopamine lesion; Ethanol consumption (Nielsen, D.M. (823) 59)

Medial prefrontal cortex; Brain asymmetry; Dopamine; Ethanol; Nucleus accumbens (Nielsen, D.M. (823) 207)

Locomotor behavior
Adeno-associated virus; Brain-derived neurotrophic factor; Green fluorescent protein; Parkinson's disease; Substantia nigra (Klein, R.L. (847) 314)

Locus ceruleus
3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; Neuron death; Alzheimer's disease (Burke, W.J. (816) 633)

Locus coeruleus
Corticotropin-releasing factor; Glucocorticoid receptor; Norepinephrine; Barrington's nucleus; Central nucleus of the amygdala; Bed nucleus of the stria terminalis (Lechner, S.M. (816) 17)

Noradrenaline; Inflammation (Tsuruoka, M. (821) 236)

Noradrenaline; Prefrontal cortex; GABA; Glutamate; Microdialysis (Kawahara, Y. (823) 42)

Aging; Norepinephrine transporter; Tyrosine hydroxylase; Brown–Norway rat (Shores, M.M. (826) 143)

Luteinizing hormone; Pulsatile secretion; Ovariectomy (Anselmo-Franci, J.A. (833) 86)

Monoamine transporter; Norepinephrine; Epilepsy; Rat (Bengzon, J. (842) 239)

Anterograde and retrograde tracers; Fos; Paraventricular nucleus of the hypothalamus (Tassorelli, C. (842) 294)

Tyrosine hydroxylase; Dopaminergic neuron; Ventral tegmental area; Arcuate nucleus; Olfactory bulb; Noradrenergic neuron (Hida, T. (842) 491)

Monoamine oxidase A; Depression; Human; Raphe; Postmortem (Ordway, G.A. (847) 71)

Rat; Alpha-2 adrenergic; Dexmedetomidine; Atipamezole; Nitric oxide-cGMP system; Sedation (Vulliemoz, Y. (849) 169)

Locus coeruleus neuron
Metabolic inhibition; ATP-activated K^+ channel; Ca^{2+}-dependent K^+ channel; Channel dephosphorylation (Koyama, S. (828) 189)

Long chain acyl-CoA synthetase
Diacylglycerol; Phosphatidylcholine; Phospholipase; Nerve growth factor; PC12 cell (Li, J. (818) 252)

Long-latency inhibition
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Adenosine; A_1 receptor; Long-term potentiation; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

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Adenosine; A_1 receptor; Long-term depression; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

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LTP-hippocampus
LTP-anoxic; Anti S-100 serum (Melani, R. (840) 171)

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Lysophospholipid acyltransferase
Phospholipid; Lysophospholipase; Glycerophosphodiesterase; Bipolar affective disorder (Ross, B.M. (821) 407)

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Magfura-2
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Fura-2; Mag-Fura-2; Magnesium Green; Fura Red; Dorsal root ganglion; Depolarization; Confocal microscopy (Gotoh, H. (828) 163)

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Medial preoptic area
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Maternal behavior; Progesterone; Medial hypothalamus; RU 486; Lactation; Pregnancy (Numan, M. (830) 358)

Male rat; Castration; Dopamine; Tyrosine hydroxylase; Nitric oxide synthase; NADPH-d; Paraventricular nucleus; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

Melatonin receptor; Photoresponsiveness; Individual variation; Seasonal breeding; Pars tuberalis; Suprachiasmatic nucleus; Paraventricular nucleus; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Medial septal area
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Melanocortin receptor
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Melanin concentrating hormone; Appetite; Hypothalamus; Intracerebroventricular (Rossi, M. (846) 164)

Melanocortin-4 receptor (MC4R)
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α-Melanocyte-stimulating hormone
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Pelvic nerve; Spinal cord; Ascending tract; Electrical stimulation; Extracellular unit recording; Micturition (Duong, M. (819) 108)

Octavolateral center; Nerve projection; Tract tracing; Horseradish peroxidase; Carbocyanine; Brain; Agnathan (González, M.J. (826) 83)

Mesoamygdaloid dopaminergic system
SCH 23390; SKF 82958; Freezing; Stress2i (Guarraci, F.A. (827) 28)

Mesocricetus auratus
Neural plasticity; Long-term potentiation; Circadian rhythm; CA1 pyramidal cell (Raghavan, A.V. (833) 311)

Mesoderm
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Messenger RNA
Corticotropin-releasing factor; Stress; Aging; Rat; Brain (Kasckow, J.W. (822) 228)

c-Met
Hepatocyte growth factor; Retina; Development; Competitive RT-PCR; Immunohistochemistry (Sun, W. (851) 46)

Metabolic depression
Telencephalon; Microdialysis; Fish; Hypoxia; *Carassius carassius* L.; GABA; Glutamate; Aspartate; Taurine; Ischemia (Hylland, P. (823) 49)

Metabolic inhibition
Locus coeruleus neuron; ATP-activated K^+ channel; Ca^{2+}-dependent K^+ channel; Channel dephosphorylation (Koyama, S. (828) 189)

Metabolism
Microcirculation; Oxygen; Diffusion; Activation; MRI; Blood flow (Hudetz, A.G. (817) 75)

Senile plaque; Processing (Arai, T. (823) 202)

Metabotropic glutamate
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Metabotropic glutamate receptor
Respiration; Excitatory amino acid; Ionotropic glutamate receptor; Lamprey; Control of breathing (Bongianni, F. (826) 298)

Calcium channel; Excitotoxity; Neostriatum; *N*-Methyl-D-aspartate; Toxicity (Colwell, C.S. (833) 234)

Microinjection; Nucleus of the solitary tract; Renal sympathetic nerve activity; Sympathetic nervous system (Matsumura, K. (842) 461)

Metachromatic leukodystrophy
Arylsulfatase A; Brainstem auditory-evoked potential; Spiral ganglion; Transgenic mouse (D'Hooge, R. (847) 352)

Metalloendopeptidase
EP24.15; Extracellular membrane association; AtT-20 cell (Crack, P.J. (835) 113)

Metalloprotease
Neuronal; Synapse; Immunohistochemistry (Huber, A.B. (837) 193)

Metallothionein-I
Glial fibrillary acidic protein; Methylmercury; Astrocyte; Astrocytoma (Yao, C.P. (818) 414)

Metals
Amyloid precursor protein; Copper; Oxidative stress; Knockout (White, A.R. (842) 439)

Met-enkelphalin
Nicotine dependence; Antinociception; Reinforcement for smoking (Wewers, M.E. (822) 107)

Methamphetamine
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Neurotoxicity; Selenium; Dopamine; Caudate nucleus; Oxidative stress (Imam, S.Z. (818) 575)

Ibogaine; Hyperthermia; Heat-shock-protein; Caudate nucleus; Striatum; Neurotoxicity (Yu, X. (823) 213)

GDNF; Dopamine; Striatum; Substantia nigra; Neurotrophic factor; In vivo microdialysis (Cass, W.A. (827) 104)

Peroxynitrite; Dopamine; 3-Nitrotyrosine; Striatum; Oxidative stress (Imam, S.Z. (837) 15)

Circadian rhythm; Sensitization (Nikaido, T. (845) 112)

Neurotoxicity; Nitric oxide synthase (Deng, X. (851) 254)

Methamphetamine-induced neurotoxicity
Dietary selenium; Dopamine; Cu,Zn-superoxide dismutase; Ratio of reduced glutathione/oxidized glutathione; Glutathione peroxidase; Malondialdehyde; Oxidative stress (Kim, H.-C. (851) 76)

Methionine recycling
Electroconvulsive shock; Brain protein synthesis; Quantitative autoradiography (Koubi, D. (821) 111)

Methotrexate hexaglutamate
NAALADase; 2-PMPA; Neurotoxicity; In vitro (Thomas, A.G. (843) 48)

3-Methoxy-4-hydroxyphenylglycol
Diabetes mellitus; Spinal cord; Norepinephrine; Alpha adrenoceptor (Bitar, M.S. (830) 1)

***N*-Methyl-D-aspartate**
Phencyclidine; c-*fos*/FLI; Apoptosis; Striatum (Griffiths, M.R. (821) 177)

Dopamine; Raphe nuclei; Clomipramine; Intracerebral dialysis (Pallotta, M. (823) 217)

Glutamate; Neurotoxicity; Apoptosis; Neuroprotection; Neurotrophins (Rocha, M. (827) 79)

Calcium channel; Excitotoxity; Metabotropic glutamate receptor; Neostriatum; Toxicity (Colwell, C.S. (833) 234)

GABA release; Neurointermediate lobe (Pampillo, M. (842) 469)

***N*-Methyl-D-aspartate receptor**
Gonadotrophin-releasing hormone; Insulin-like growth factor-1; Insulin-like growth factor-binding protein 2; Insulin-like growth factor-binding protein 3; GPE or (1–3)IGF-I (Bourguignon, J.-P. (847) 247)

Methylene blue
Nitric oxide synthase; Microdialysis; Hippocampus; Rat (Volke, V. (826) 303)

3-Methylindole
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Metallothionein-I; Glial fibrillary acidic protein; Astrocyte; Astrocytoma (Yao, C.P. (818) 414)

Sialyltransferase; Cerebellum; Neural cell adhesion molecule; Development; Polysialylation (Dey, P.M. (845) 139)

1-Methyl-4-phenylpyridinium
6-Hydroxydopamine; L-DOPA; Neurotoxicity; Hypothalamic noradrenergic neuron; Nigrostriatal dopaminergic neuron; Vesicular monoamine transporter type 2 (Cleren, C. (830) 314)

1-Methyl-4-phenylpyridinium ion (MPP^+)
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Metyrapone
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MHC-II
NO; β-amyloid; Astrocyte; Microglia; Alzheimer's disease (Pazmany, T. (835) 213)

Mice
t-PA; u-PA; Cerebral ischemia; Embolic stroke (Ahn, M.Y. (837) 169)

Analgesia; Calcitonin; Serotonin; 5-HT receptor; Writhing test (Ormazábal, M.J. (845) 130)

Microcirculation
Oxygen; Diffusion; Activation; MRI; Blood flow; Metabolism (Hudetz, A.G. (817) 75)

Microdialysis
Formalin test; Behavior; Novelty (Ceccarelli, I. (815) 169)

Circadian rhythm; Melatonin; Dopamine; Retina; Pigeon (Adachi, A. (815) 435)

VMH–PVN; Blood–brain barrier; Brain metabolism; Astrocyte (Goucham, A.-Y. (816) 84)

Monkey; Parkinson's disease; Dopamine; Substantia nigra (Gerhardt, G.A. (817) 163)

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Parkinson's disease; Free radical; Histidine; 1-Methyl-4-phenylpyridinium ion (MPP^+) (Obata, T. (817) 206)

Cholecystokinin; Opioid; Tolerance; Spinal cord (Lucas, G.A. (821) 79)

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Telencephalon; Fish; Hypoxia; *Carassius carassius* L.; GABA; Glutamate; Aspartate; Taurine; Metabolic depression; Ischemia (Hylland, P. (823) 49)

Lithium; Rubidium; Escape deficit; Stress; Dopamine (Gambarana, C. (826) 200)

Immobilization; Norepinephrine; Paraventricular nucleus; Yohimbine (Tjurmina, O.A. (826) 243)

Nitric oxide synthase; Methylene blue; Hippocampus; Rat (Volke, V. (826) 303)

HPLC; Excitatory amino acid; Inhibitory amino acid (Geddes, J.W. (831) 104)

Sensitization; Cocaine; Medial prefrontal cortex; 6-Hydroxydopamine; Dopamine; Nucleus accumbens (Beyer, C.E. (833) 133)

Glutamate; Amino acid; Stress (Timmerman, W. (833) 150)

Sleep; Serotonin; Hippocampus; Rat (Park, S.P. (833) 291)

Acetylcholine; ChAT; Muscarinic antagonist; NBM (Gutiérrez, H. (834) 136)

Cocaine; Dopamine; Dopamine transporter; Prenatal exposure (Du, W. (836) 194)

Nitric oxide; Glutamate; 7-Nitroindazole; Kainic acid; Hippocampus (Alabadí, J.A. (839) 305)

Cerebral blood flow; Cerebral glucose use; Acetylcholine; Substantia innominata; Rat (Barbelivien, A. (840) 115)

Dopamine; Dopamine D_2 receptor; [^{11}C]Raclopride; Positron emission tomography; Monkey brain (Tsukada, H. (841) 160)

Rostral ventrolateral medulla; Caudal ventrolateral medulla; Excitatory amino acid; Blood pressure (Lillaney, R. (844) 164)

Nociceptin; Orphanin FQ; Striatum; Acetylcholine; [$Phe^1\Psi(CH_2–NH)Gly^2$] nociceptin-(1-13)–NH_2 (Itoh, K. (845) 242)

Rat; Brain; Ischemia; Norepinephrine; Histology (Nellgård, B.M.G. (847) 262)

Neuropeptide; Cholecystokinin; Morphine; Opioid; Neuropathy; Inflammation; Spinal cord; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Galanin; Acetylcholine; Serotonin; Cognition; Spatial learning; Passive avoidance (Ögren, S.O. (848) 174)

Isoflurane; Dopamine transporter; Dopamine D_2 receptor; Positron emission tomography; Monkey brain (Tsukada, H. (849) 85)

Microdialysis electrode
Brain; Hypoxia; Glutamate; Real-time monitoring; In vivo (Kunimatsu, T. (831) 273)

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Globus pallidus; Hypothalamus; Neurotensin; Ventral pallidum; Tandem mass spectrometry; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Microglia
Rat; Brain inflammation; Nonsteroidal anti-inflammatory drug (NSAID); Alzheimer's disease; Lipopolysaccharide (Hauss-Wegrzyniak, B. (815) 36)

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Alzheimer's disease; β-amyloid; Blood–brain barrier; Astrocytes; Hemorrhage (Su, G.C. (818) 105)

OX-42; OX-6; Spinal cord; Gracile nucleus; Formalin; Rat (Fu, K.-Y. (825) 59)

Cytokine; Diagnostic marker; ELISA; Interleukin-6; Tumour necrosis factor-α (Garlind, A. (826) 112)

Antioxidant; Astrocyte; Calcium; Oxidized low density lipoprotein; Reactive oxygen species (Keller, J.N. (830) 10)

β(1–40); γ-Aminobutyric acid release; Glutamic acid decarboxylase activity (Scali, C. (831) 319)

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MHC-II; NO; β-amyloid; Astrocyte; Alzheimer's disease (Pazmany, T. (835) 213)

Apoptosis; Müller cell; Photoreceptor cell; Lactate dehydrogenase; Necrosis; Nick-end labeling; Retinal degeneration (Roque, R.S. (836) 110)

Cytokine; Phosphodiesterase inhibitor; Multiple sclerosis; Astrocyte; TNF (Suzumura, A. (837) 203)

Nestin; Traumatic brain injury; Astrocyte; Plasticity (Sahin Kaya, S. (840) 153)

Multinucleated giant cell; Cytokine; IL-13; IL-4 (Suzumura, A. (849) 239)

Microglial cell line
Neuron–microglia interaction; Immunoglobulin superfamily; LFA-1; Neurodegenerative disease (Mizuno, T. (849) 58)

Microinfusion
Pain; TNF; Norepinephrine; α_2-Adrenergic receptor; Hippocampus (Ignatowski, T.A. (841) 70)

Microinjection
Metabotropic glutamate receptor; Nucleus of the solitary tract; Renal sympathetic nerve activity; Sympathetic nervous system (Matsumura, K. (842) 461)

Microiontophoresis
Corticosterone; Rapid effect; Rostral ventrolateral medulla; Extracellular recording (Rong, W. (815) 51)

Opioid peptide; Neuromodulation; Active sleep; Motoneuron; Cat (Xi, M.-C. (819) 155)

Microstimulation
Sensory system; Somatosensory cortex; Short-term plasticity; Vibrotaction; EEG; Driving response (Kelly, E.F. (815) 326)

Microtubule
Cytoskeleton; Protein phosphorylation; Sciatic nerve; Axotomy; Glial cell (Ma, D. (823) 141)

Multiple sclerosis; Axonal degeneration; Neurofilament protein; Macrophage; Anti-galactocerebroside (Zhu, B. (824) 204)

Oxytocin; Vasopressin; Immunocytochemistry; Cytoskeleton; Plasticity; Shape conversion; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

Microtubule-associated protein-2
Cardiac ganglia; Parasympathetic neuron; Immunocytochemistry; Reverse transcription polymerase chain reaction; Neuropeptide Y; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Microtubule binding
Tau; Phosphorylation; SY5Y human neuroblastoma cell; Differentiation (Haque, N. (838) 69)

Microvessel
Opiate agonist; Blood–brain barrier (Maresh, G.A. (839) 336)

Microwire
Hypothalamus; Sleep; REM; Histamine; Tuberomammillary (Steininger, T.L. (840) 138)

Micturition
Pelvic nerve; Spinal cord; Ascending tract; Mesencephalon; Electrical stimulation; Extracellular unit recording (Duong, M. (819) 108)

Genitourinary; Parasympathetic; Electrical stimulation; Neural prosthesis (Grill, W.M. (836) 19)

Brainstem; Cholinergic neuron; Vigilance; Enuresis; Barrington's nucleus (Koyama, Y. (840) 45)

Midbrain
Tyrosine hydroxylase; Aromatic L-amino acid decarboxylase; Dopamine metabolism; Dopamine receptor agonist; Dopamine receptor antagonist; Tolerance; Striatum (Cho, S. (830) 237)

α_1 Adrenoceptor; Stress; mRNA; Hypothalamus; Reverse transcriptase–polymerase chain reaction; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

Middle cerebral artery occlusion
Cerebral ischemia; Circle of Willis; Hippocampus; Mouse; Rat (Özdemir, Y.G. (822) 260)

Apoptosis; Synaptogenesis; Tissue plasticity; Rat; Staurosporine (Chopp, M. (828) 197)

Focal cerebral ischemia; Neuroprotection; Immunohistochemistry; Poly(ADP-ribose) polymerase; Laser Doppler flowmetry; Rat (Takahashi, K. (829) 46)

t-PA; u-PA; Age; Mouse (Ahn, M.Y. (833) 112)

GFRα-1; Ret; Immunoreactivity; Focal ischemia (Kitagawa, H. (834) 190)

Focal ischemia; Hyperglycemia; Cyclosporin A; FK506 (Kuroda, S. (835) 148)

Brain plasticity; Nestin; Rat (Li, Y. (838) 1)

Transient ischemic depolarization; Spreading depression; Anoxic depolarization; Rat (Nallet, H. (842) 148)

Midfrontal gyrus
Hippocampus; Entorhinal cortex; Midtemporal gyrus; Polymerase chain reaction; Cerebellum (Yasojima, K. (831) 301)

Midline thalamic nuclei
Central medial thalamus; Central lateral thalamus; c-Fos; Morphine; β-FNA (Frankel, P.S. (838) 222)

Midtemporal gyrus
Hippocampus; Entorhinal cortex; Midfrontal gyrus; Polymerase chain reaction; Cerebellum (Yasojima, K. (831) 301)

Migraine
Spreading cortical depression; Magnetoencephalography; Electrocorticography; Electroencephalography; Headache (Bowyer, S.M. (843) 71)

Spreading cortical depression; Headache; Magnetoencephalography; Electroencephalography; Electrocorticography; Swine; Pig (Bowyer, S.M. (843) 79)

Nitric oxide; Superoxide; Sumatriptan (Read, S.J. (847) 1)

Dura; Estradiol; Histamine; Mast cell; Neuron; Neuropeptide; Secretion; Substance P; Stress (Rozniecki, J.J. (849) 1)

Migration
Gonadotropin-releasing hormone; Olfactory system; Nervus terminalis; Olfactory placode; Human brain (Kim, K.H. (826) 220)

Milk ejection
Fos; Lactation; Magnocellular nuclei; Nitric oxide synthase; Oxytocin (Okere, C.O. (828) 104)

Mineralocorticoid
Corticosteroid; GIRK; Corticosterone; Hippocampus; Rat; Adrenalectomy; Glucocorticoid; Immunoblot; Glucocorticoid (Muma, N.A. (839) 331)

Mineralocorticoid and glucocorticoid receptor; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Mineralocorticoid and glucocorticoid receptor
Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Synaptic plasticity; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Mineralocorticoid receptor
Development; Glucocorticoid receptor; Limbic system; Hypothalamo-pituitary-adrenal (HPA) axis; Nutrition; Fetus; Guinea pig (Lingas, R. (846) 236)

Dexamethasone; Glucocorticoid; Development; Glucocorticoid receptor; Limbic system; Hypothalamo–pituitary–adrenal axis; Fetus; Guinea pig (Dean, F. (846) 253)

Miniature postsynaptic currents
Pb^{2+}; Hippocampus; Patch clamp; Tetrodotoxin; Transmitter release (Braga, M.F.M. (826) 10)

Miniature synaptic current
Glutamate receptor channel; Neuromodulation; Patch clamp; Decay time constant; Single channel recording (Nishikawa, K.-i. (837) 67)

Minimal circuitry
Trigeminal; Oral–motor activity; Inhibitory circuitry (Tanaka, S. (821) 190)

MIP
Molluscan neuropeptide; K^+-conductance; Cl^--conductance (Kiss, T. (830) 258)

Mitochondria
Cerebral ischemia; Reperfusion; Hypothermia; Cytochrome c oxidase; Respiratory chain (Canevari, L. (817) 241)

Ischemia; Brain; Development; Reactive oxygen species (Keelan, J. (821) 124)

Glutathione; L-Buthionine sulfoximine; Cerebellar granule neuron; Reactive oxygen intermediate; Apoptosis (Wüllner, U. (826) 53)

Oxygen consumption; Visualization; Tissue slice; [^{15}O]Oxygen; Brain (Sasaki, T. (831) 263)

Dopamine; Striatum; Excitotoxicity; Reactive oxygen species; Monoamine oxidase (Maragos, W.F. (834) 168)

Ischemic tolerance; Nitric oxide; Neuropathology; Hippocampus (Centeno, J.M. (836) 62)

N-Acetylcysteine; Aging; Thiol; Cytochrome *c* oxidase; Complex IV (Martínez Banaclocha, M. (842) 249)

Apoptosis; Cytochrome *c*; Vestibular hair cell; Aminoglycoside (Nakagawa, T. (847) 357)

Mitochondrial depolarization
Glutamate; Neurotoxicity; Rhodamine 123; Neurons (Almeida, A. (816) 580)

Mitogen
Growth factor; mRNA; Postnatal; Phosphorylation; Vitamin K-dependent (Prieto, A.L. (816) 646)

Mitogen-activated protein kinase
Ischemic preconditioning; Oxygen–glucose deprivation; Calcium; Protein kinase C; Cortical neuron (Tauskela, J.S. (827) 143)

Neuronal death; Signal transduction; Redox status; Retina; Axotomy (Castagné, V. (842) 215)

Mitogenesis
D2 receptor; Glial fibrillary acidic protein; p38 MAPK; Signal transduction; Astrocyte; C6 glioma cell; Reactive oxygen species (Luo, Y. (850) 21)

MK-801
Cardiac arrest; Cerebral ischemia; Diltiazem; Hippocampal CA1; Neuronal damage; Neuroprotection; Synergism (Li, M.M. (826) 44)

Remacemide; Desglycinyl remacemide; Anticonvulsant; Phencyclidine; SKF-10,047 (Ahmed, M.S. (827) 46)

Nerve injury; Allodynia; Supraspinal/spinal synergy; Morphine; Dynorphin (Bian, D. (831) 55)

Sensitization; Locomotor activity; Cocaine (O'Neill, M.F. (834) 103)

Focal cerebral ischemia; TGF-β1; Cytokine; GFAP; c-*fos*; hsp70; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

Schizophrenia; Ketamine; Amphetamine; NMDA; Animal model; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Glutamate; NMDA; Butorphanol; Withdrawal; Autoradiography (Jang, C.-G. (845) 236)

Morphine; Fentanyl; Analgesia; Naloxone-precipitated hyperalgesia; NMDA pain facilitatory processes (Célèrier, E. (847) 18)

MK801
β-Endorphin analgesia; AP7; NMDA receptor; Scopolamine; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

MK-801 (dizocilpine)
Intracranial self-stimulation (ICSS); Memantine; Reward; Lateral hypothalamus; Median forebrain bundle; Curve-shift paradigm; NMDA receptor (Tzschentke, T.M. (845) 192)

Modality specific processing
Event-related potential; Selective attention; Supramodal brain system; Negativity difference; N1; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Model organism
Peptide function; Expression pattern (Li, C. (848) 26)

Modulation
Glutamate; GABA; Striatum; Integration (Kiyatkin, E.A. (822) 88)

Hippocampus; Inhibition; Vigilance state; Dentate granule cell; Plasticity (Bronzino, J.D. (849) 45)

Molecular analysis
Gene transfer; Behavior; Herpes simplex vectors (Simonato, M. (835) 37)

Molecular chaperone
Heat shock protein; Postsynaptic density; Synapse; Synaptic plasticity; Immunohistochemistry (Suzuki, T. (816) 99)

Mollusc
Slug; Tentacles; Tentacular digits; Olfaction; Local field potential (Ito, I. (815) 121)

Molluscan neuropeptide
MIP; K^+-conductance; Cl^--conductance (Kiss, T. (830) 258)

Mongolian gerbil
Transient forebrain ischemia; Synapsin-I; Hippocampus (Martí, E. (824) 153)

Monkey
Parkinson's disease; Dopamine; Microdialysis; Substantia nigra (Gerhardt, G.A. (817) 163)

Scopolamine; FK960; HA-966; Regional cerebral blood flow; Somatosensory stimulation; Positron emission tomography (Tsukada, H. (832) 118)

Parkinson's disease; MPTP; Single photon emission computed tomography; Dopamine transporter; β-CIT (Eberling, J.L. (832) 184)

Acetylcholine; Saporin; Discrimination learning; Cortex; Hippocampus (Ridley, R.M. (836) 120)

Extracellular matrix; Chondroitin sulphate proteoglycans; Fast-firing neurons; Parvalbumin; Triple fluorescence labelling; Rat (Härtig, W. (842) 15)

Dopamine; Striatum; Receptor; MPTP (Decamp, E. (847) 134)

Interleukin-6; Brain endothelial cell; Hypoxia (Reyes, T.M. (851) 215)

Monkey brain
Brain-derived neurotrophic factor; Glia; Immunohistochemistry; Neuron (Kawamoto, Y. (821) 341)

Dopamine; Dopamine D_2 receptor; [^{11}C]Raclopride; Positron emission tomography; Microdialysis (Tsukada, H. (841) 160)

Isoflurane; Dopamine transporter; Dopamine D_2 receptor; Positron emission tomography; Microdialysis (Tsukada, H. (849) 85)

Monkey prefrontal cortex
(−) Deprenyl; Layer III pyramidal neuron; Dendritic arborization; Golgi staining; Neural plasticity (Shankaranarayana Rao, B.S. (821) 218)

Monoamine
Galanin$_{rat}$; Galantide; Dopamine; Synthesis; Behavior; Rat (Ericson, E. (822) 200)

γ-Aminobutyric acid; Ventromedial nucleus; Paraventricular nucleus; Feeding behavior; Energy balance (Ohtani, N. (842) 6)

Dopamine; Anoxia; Indomethacin; Immature brain; In vivo microdialysis (Ogasawara, M. (842) 487)

Monoamine oxidase
Cerebral blood flow; Phenylethylamine; Autoradiography; Iodo-antipyrine; Mouse (Scremin, O.U. (824) 36)

Intermediolateral nucleus; Sympathetic preganglionic neuron; Noradrenergic neuron; Serotonergic neuron; Parkinson's disease (Yamada, H. (833) 302)

Dopamine; Striatum; Mitochondria; Excitotoxicity; Reactive oxygen species (Maragos, W.F. (834) 168)

Aggression; Knock-out mouse; MAO-deficient mouse; VMAT2; 5-HT_{2A} receptor (Shih, J.C. (835) 104)

Monoamine oxidase A
Depression; Human; Locus coeruleus; Raphe; Postmortem (Ordway, G.A. (847) 71)

Monoamines
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Monoamine transporter
Antidepressant; Depression; Serotonin uptake; Norepinephrine uptake; Glia; Astrocyte (Neary, J.T. (816) 358)

Norepinephrine; Locus coeruleus; Epilepsy; Rat (Bengzon, J. (842) 239)

Monoarthritis
Neuropeptide FF; Rat spinal cord; Nociception; Descending inhibitory control; Chronic pain (Lombard, M.-C. (816) 598)

Monocyte / macrophage
Neuroimmunology; Cytokine; Interleukin-1β; Tumor necrosis factor-α; Interleukin-10 (Woiciechowsky, C. (816) 563)

Monosodium glutamate
Arcuate nucleus; Coexistence; Feeding; Immunohistochemistry; In situ hybridization; Mouse; Paraventricular hypothalamic nucleus (Broberger, C. (848) 101)

μ-opiate receptor
Hyperalgesia; Analgesia; Endomorphin-1; Orphanin FQ; ORL1 receptor (Wang, Y.-Q. (835) 241)

Morphine
Fos; Trigeminal subnucleus caudalis; Tooth movement (orthodontic); Periodontal ligament; Naloxone (Aihara, Y. (819) 48)

Pain; Antinociception; Sex difference; Adult gonadectomy (Krzanowska, E.K. (821) 224)

Self-administration; Proenkephalin; Striatum; Nucleus accumbens; Lewis; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Antinociception; Opioid receptor; Transgenic mouse (Fuchs, P.N. (821) 480)

Carrageenin; Inflammation; Opioid receptor antagonist; Spinal cord; c-Fos (Catheline, G. (824) 105)

Circadian rhythm; Entrainment; Zeitgeber; C57BL/6j mouse (Mistlberger, R.E. (829) 113)

Nerve injury; Allodynia; Supraspinal/spinal synergy; Dynorphin; MK-801 (Bian, D. (831) 55)

Orphanin FQ; Nociceptin; Opioid; Reward; Preference (Murphy, N.P. (832) 168)

Midline thalamic nuclei; Central medial thalamus; Central lateral thalamus; c-Fos; β-FNA (Frankel, P.S. (838) 222)

Analgesia; Opioid; Morphine-6-glucuronide (Zuckerman, A. (842) 1)

C-Fos; JunB; Serotonin; Dorsal raphe nucleus; β-FNA (Frankel, P.S. (842) 220)

Fentanyl; Analgesia; Naloxone-precipitated hyperalgesia; MK-801; NMDA pain facilitatory processes (Célèrier, E. (847) 18)

Discrimination; Naloxone; Paraventricular nucleus; Perifornical area (Cleary, J.P. (847) 26)

Neuropeptide; Cholecystokinin; Opioid; Neuropathy; Inflammation; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Allodynia; Inflammation; Opioid mechanisms (Panula, P. (848) 191)

Morphine-6-glucuronide
Morphine; Analgesia; Opioid (Zuckerman, A. (842) 1)

Morphine treatment
Nociceptin/orphanin FQ; Enzyme biotransformation; Cultured cells; Mass spectrometry (Vlaskovska, M. (818) 212)

Morphine withdrawal
Calcium; Thapsigargin; Frontal cortex; Diabetes; Noradrenaline (NA) turnover (Ohsawa, M. (815) 424)

Electroacupuncture; Analgesia; Dynorphin; κ-opioid receptor (Wu, L.-Z. (851) 290)

Morphometry
Corpus callosum; Hippocampal commissure; Anterior commissure; Cerebral cortex; Allometry (Bishop, K.M. (815) 358)

Alzheimer's disease; Cerebellum; Atrophy; Neuronal loss; Clinicopathological correlation (Wegiel, J. (818) 41)

Sex difference and differentiation; GHRH-ir neuron; SS-ir neuron; Immunohistochemistry; Hypothalamus (Nurhidayat, (821) 309)

Morris water maze
Inhibitory avoidance; NMDA; GABAergic system (Spanis, C.W. (816) 329)

Brain-derived neurotrophic factor; Learning and memory impairment (Mu, J.-S. (835) 259)

Aging; GPI 1046; Immunophilin (Sauer, H. (842) 109)

Mossy cell
Subunits 2 and 3 of amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) type glutamate receptor (GluR2/3); Calretinin; Dorsoventral difference; Hippocampus; Mouse (Fujise, N. (816) 500)

Mossy fiber
Hippocampal cultured slice; Recurrent excitation; Dentate gyrus (Gutiérrez, R. (815) 304)

Radial maze learning; Y chromosome; Hippocampus; Mouse (Sluyter, F. (835) 68)

Mossy fiber LTP
Mu opioid receptor; $GABA_B$ receptor; Rat hippocampal slice (Jin, W. (821) 286)

Mossy fiber sprouting
Epilepsy; Ihara epileptic rat; Limbic-like seizure; Neuronal plasticity (Amano, S. (834) 214)

Electroconvulsive shock seizure; ECS; MES; Electroconvulsive therapy; ECT; Timm stain; Hippocampus (Gombos, Z. (844) 28)

Motoneuron
Ib interneuron; Muscle pain (Rossi, A. (815) 106)

Spinal cord; Acetylcholine; Muscarinic receptor; Immunocytochemistry; Confocal microscopy (Welton, J. (817) 215)

Microiontophoresis; Opioid peptide; Neuromodulation; Active sleep; Cat (Xi, M.-C. (819) 155)

Expiration; Reticular formation; Pseudorabies virus; Respiration; Vestibular (Billig, I. (820) 31)

Serotonin; Regeneration; Axotomy; Neurotrophin; Receptor; Sciatic nerve; Peripheral nerve (Rende, M. (823) 234)

Hypoglossal; Protruder; Retractor; Intracellular; Substance P (Gatti, P.J. (834) 155)

Spinal cord; Sacral; Cytotoxicity; NOS1 (Pullen, A.H. (836) 173)

Motoneuron excitability
Homosynaptic depression; Soleus; Human (Komiyama, T. (826) 317)

Ethanol; Action potential waveform; Excitatory synaptic current; Inhibitory synaptic current; Developing spinal cord (Cheng, G. (845) 224)

Motor
Acetylcholine; Dopamine, D1; c-AMP; Tremor; Parkinson; Vacuous; Chewing (Mayorga, A.J. (829) 180)

Chattering; Pyramidal neuron; Synchronization; Local circuit; Intracellular recording (Kitagawa, H. (842) 101)

Motor activity
Melatonin; Acetylcholine; Nucleus accumbens (Paredes, D. (850) 14)

Motor behavior
Substantia nigra pars reticulata; Movement-related cell; Amphetamine (Gulley, J.M. (845) 68)

Motor control
Muscle pain; Presynaptic inhibition; Group I pathway (Rossi, A. (818) 12)

Basal ganglia; Striatum; Subthalamic nucleus; Presupplementary motor area; Supplementary motor area (Inase, M. (833) 191)

Sensorimotor information processing; Initiation of movement; Learned motor performance; Electromyographic analysis of behavior (Woody, C.D. (836) 79)

Motor cortex
Cerebrum; Fluorescent; Movement; Rat; Thalamus; Tracer (Gu, X. (835) 175)

Handedness; Hand preference; Human asymmetry; Laterality (Triggs, W.J. (835) 324)

Brain; Stimulation; Movement; Sheep (Grovum, W.L. (851) 252)

Motor evoked potential
Functional recovery; Reticulospinal; 4-AP; Spinal cord injury (Gruner, J.A. (816) 446)

Motor neuron
MAP1B; Peripheral nerve; Cytoskeleton; Plasticity; Regeneration (Ramón-Cueto, A. (815) 213)

Amyotrophic lateral sclerosis; Antioxidant enzyme; Caloric restriction; Oxidative stress (Pedersen, W.A. (833) 117)

Poly(ADP–ribose) polymerase; Immunocytochemistry (Cookson, M.R. (834) 182)

Motor response alterations
Parkinson's disease; 6-Hydroxydopamine lesion; Basal ganglia; NMDA antagonist; KN93 (Oh, J.D. (821) 433)

Mouse
Non-genomic; Progesterone; Lordosis; PRKO mouse; Neurosteroids (Frye, C.A. (815) 259)

Brain; Angiotensin receptor; Dopamine; Aging; Ethanol (Daubert, D.L. (816) 8)

Neurofibromatosis; *NF1*; Astrocyte; Gliosis; Learning disability; Ras; Neurofibromin (Rizvi, T.A. (816) 111)

Inbred strain; Cognition; Kainic acid; Excitotoxicity (Royle, S.J. (816) 337)

Mossy cell; Subunits 2 and 3 of amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) type glutamate receptor (GluR2/3); Calretinin; Dorsoventral difference; Hippocampus (Fujise, N. (816) 500)

Androgen receptor; Brain; Hypogonadal; Regulation; Castration; Testosterone (Apostolinas, S. (817) 19)

Cytokine; Cerebral ischemia; E-selectin (Hill, J.K. (820) 45)

Angiotensin II type 2 receptor; Anxiogenic behavior; α_1-Adrenergic receptor; Corticotropin-releasing factor; Amygdala (Okuyama, S. (821) 150)

Cerebral ischemia; Middle cerebral artery occlusion; Circle of Willis; Hippocampus; Rat (Özdemir, Y.G. (822) 260)

Cerebral blood flow; Monoamine oxidase; Phenylethylamine; Autoradiography; Iodo-antipyrine (Scremin, O.U. (824) 36)

Circadian rhythm; Melatonin; Antagonist; Phase shift (Weibel, L. (829) 160)

Persistent pain; Formalin test; Gender-related difference (Kim, S.J. (829) 185)

Pericytes; Periendothelial cells; Brain parenchyma vessels; Aminopeptidases N and A; Angiotensin (Alliot, F. (830) 101)

t-PA; u-PA; Age; Middle cerebral artery occlusion (Ahn, M.Y. (833) 112)

Focal cerebral ischemia; Animal model; Poly-L-lysine; Image-analysis (Belayev, L. (833) 181)

Radial maze learning; Y chromosome; Hippocampus; Mossy fiber (Sluyter, F. (835) 68)

129 mouse
Corpus callosum; Knockout; ES cell; C57 mouse; Spatial learning; Non-spatial learning (Balogh, S.A. (836) 38)

Mouse
Trangenic; Strain; Electrophysiology; Dentate gyrus (Bampton, E.T.W. (841) 123)

Glia; Single-cell RT-PCR; Patch-clamp recording (Schmidt, K. (843) 145)

Cold pain; Heat pain; Anterior cingulate cortex; Opioid (Lee, D.E. (845) 117)

Acetylcholine; Aversive conditioning; γ-Aminobutyric acid; Hippocampus; Memory; Retention; Septum; Serotonin (Farr, S.A. (847) 221)

Arcuate nucleus; Coexistence; Feeding; Immunohistochemistry; In situ hybridization; Monosodium glutamate; Paraventricular hypothalamic nucleus (Broberger, C. (848) 101)

Nicotine; Intermittent administration; Abstinence; Withdrawal; Mecamylamine (Isola, R. (850) 189)

Mouse brain
Arginine^8–vasopressin; Memory consolidation; Limbic structure; Fos-protein; Immunocytochemistry (Paban, V. (825) 115)

Mouse leptin
Food intake; Broiler; White Leghorn; Intracerebroventricular administration (Bungo, T. (817) 196)

Movement
Inducible transcription factor; Antisense phosphorothioate oligonucleotides; Prepositus hypoglossus; Posture; Labyrinthectomy (Kaufman, G.D. (817) 246)

Cerebrum; Fluorescent; Motor cortex; Rat; Thalamus; Tracer (Gu, X. (835) 175)

Brain; Motor cortex; Stimulation; Sheep (Grovum, W.L. (851) 252)

Movement disorder
Basal ganglia; Dorsomedial caudate–putamen; Paroxysmal dyskinesia; Type II neuron; GABAergic system (Gernert, M. (821) 277)

Movement-related cell
Substantia nigra pars reticulata; Motor behavior; Amphetamine (Gulley, J.M. (845) 68)

MPP$^+$
Hydroxyl radical; Dopamine; Reserpine; Parkinson's disease (Obata, T. (828) 68)

Astrocytes; MPTP; Reactive oxygen species; Superoxide dismutase; Adenosine triphosphate (Wong, S.S. (836) 237)

MPPI
Male sexual behavior; 8-OH-DPAT; Medial preoptic area; Dopamine; Serotonin; Raclopride (Matuszewich, L. (820) 55)

MPTP
Parkinson's; Paraquat; Tyrosine hydroxylase (Brooks, A.I. (823) 1)

3-Nitrotyrosine; Parkinson's disease; Nitric oxide; Peroxynitrite (Ferrante, R.J. (823) 177)

Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine uptake site; Autoradiography (Tanji, H. (824) 224)

GDNF; Competitive RT-PCR; GDNF mRNA expression (Inoue, T. (826) 306)

Parkinson's disease; Monkey; Single photon emission computed tomography; Dopamine transporter; β-CIT (Eberling, J.L. (832) 184)

Astrocytes; MPP$^+$; Reactive oxygen species; Superoxide dismutase; Adenosine triphosphate (Wong, S.S. (836) 237)

Dopamine; Striatum; Receptor; Monkey (Decamp, E. (847) 134)

M1 receptor
NGF antibody; Binding; Hippocampus; Juvenile rat; Development (Rosati, A.M. (815) 185)

MRI
Microcirculation; Oxygen; Diffusion; Activation; Blood flow; Metabolism (Hudetz, A.G. (817) 75)

Müller cell
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Müller glia
Glutamate transporter; Uptake regulation; GLAST; Transport modulation; Phorbol ester; Protein kinase C (González, M.I. (831) 140)

Multidrug resistance
Blood–brain barrier; P-glycoprotein (Golden, P.L. (819) 143)

Multinucleated giant cell
Microglia; Cytokine; IL-13; IL-4 (Suzumura, A. (849) 239)

Multiple sclerosis
Ferritin; Transferrin; Iron; Cerebrospinal fluid (LeVine, S.M. (821) 511)

Axonal degeneration; Neurofilament protein; Microtubule; Macrophage; Anti-galactocerebroside (Zhu, B. (824) 204)

Microglia; Cytokine; Phosphodiesterase inhibitor; Astrocyte; TNF (Suzumura, A. (837) 203)

Multiple single-neuron recording
Auditory-evoked potential; Hippocampus; Auditory cortex; Medial septal nucleus; Brainstem reticular formation (Moxon, K.A. (825) 75)

Multivesicular body
ATM; Ataxia-telangiectasia; Endocytosis; Lysosomal pathway (Kuljis, R.O. (842) 351)

Mu-opioid receptor
Fluoxetine; Rat brain; Antidepressant; Immunostaining; Selective serotonin reuptake inhibitor (De Gandarias, J.M. (817) 236)

Immunohistochemistry; Central nucleus of the amygdala; Pain; Blood pressure (Chamberlin, N.L. (827) 198)

Mu opioid receptor
Mossy fiber LTP; $GABA_B$ receptor; Rat hippocampal slice (Jin, W. (821) 286)

Muscarinic
Adenosine; Purines; Acetylcholine; Paired-pulse interactions (Nikbakht, M.-R. (829) 193)

Muscarinic acetylcholine receptor
Dorsal root ganglia; Sensory neuron; Nociception (Tata, A.M. (824) 63)

Muscarinic antagonist
Acetylcholine; ChAT; Microdialysis; NBM (Gutiérrez, H. (834) 136)

Muscarinic receptor
Spinal cord; Motoneuron; Acetylcholine; Immunocytochemistry; Confocal microscopy (Welton, J. (817) 215)

SIF cell; Pelvic ganglion; Catecholamine synthesizing enzyme; Adrenaline; Acetylcholine (Prud'homme, M.-J. (821) 141)

Formalin test; Analgesia; Corticosterone; β-Endorphin; Behavior (Capone, F. (830) 292)

Vestibular periphery; Quinuclidinyl benzilate; Autoradiography; Hair cell (Drescher, D.G. (845) 199)

Inner ear; Cochlear efferent system; Spiral ganglion neurons; Cholinergic receptor; Calcium signaling (Rome, C. (846) 196)

GH_3 cell; Ca^{2+} oscillation; Pertussis toxin; GTP binding protein (Kushmerick, C. (851) 39)

Muscimol
Hippocampus; Memory; Diabetes; Glucose; Insulin; Oxotremorine; Bicuculinne; Acetylcholine (Messier, C. (818) 583)

Rostral ventrolateral medulla; Bicuculline; Sympathetic nerve activity; Arterial blood pressure; Plasma catecholamine (Natarajan, M. (827) 169)

Picrotoxin; Rat (Hatfield, T. (835) 340)

Circadian rhythm; Suprachiasmatic nucleus; γ-Aminobutyric acid; GABA; Tetrodotoxin; Rat; Brain slice (Bergeron, H.E. (841) 193)

Ventral tegmental area; Stimulation-induced locomotor response; Facilitation; Bicuculline; Phaclofen; Contralateral effect (Trojniar, W. (842) 419)

Flunitrazepam; TBPS; PDBu; GABA; Autoradiogram (Oh, S. (850) 158)

Muscle contraction
Acetylcholine; Spinal cord; Dorsal horn; Blood pressure (Hand, G.A. (837) 143)

Muscle nociception
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Muscle pain
Ib interneuron; Motoneuron (Rossi, A. (815) 106)

Presynaptic inhibition; Group I pathway; Motor control (Rossi, A. (818) 12)

Human; Hypertonic saline; Diffuse noxious inhibitory control (Svensson, P. (851) 32)

Muscle regeneration
Acetylcholine receptor; Neuromuscular junction; Dystrophin; Agrin; Satellite cell (Kong, J. (839) 298)

Muscle spindle
Locomotion; Reflex control (Murphy, P.R. (821) 38)

Kinaesthesia; Fusimotor; Contraction; Stretch; Sensation (Wise, A.K. (821) 87)

Rabbit; Trigeminal system; Firing pattern; Classification; Halothane anesthesia (Kato, T. (833) 1)

Muscle spindle afferent
Golgi tendon organ afferent; Sinusoidal response; Tendon jerk; Information transfer latency (Schäfer, S.S. (843) 36)

Muscle spindle Ia afferent
Ramp stretch response; Sinusoidal response; Receptor current; Cat (Schäfer, S.S. (819) 89)

Muskrat
Anterior ethmoidal nerve; C-fiber; Aδ fiber; Diving response; Cardiorespiratory reflex (McCulloch, P.F. (830) 24)

Mustard oil
Temporomandibular joint; Trigeminal subnucleus caudalis; Ibotenic acid; Nociceptive reflex; Jaw muscle (Tsai, C.-M. (826) 293)

Mutagenesis
4-Aminopyridine; Kv1.4 potassium channel; Fast inactivation gate; L4 heptad leucine; N-terminus deletion (Judge, S.I.V. (831) 43)

Mycoplasma fermentans
Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

Myelin
Osteopontin; Chick; Immunohistochemistry; Western blot; Demyelination (Kang, T.-C. (818) 527)

Neurite outgrowth; Dorsal root ganglion; Regeneration; Central nervous system; Peripheral nervous system (Ng, W.P. (836) 49)

Black-Gold; Demyelination; Kainic acid; 3-Nitropropionic acid; Isoniazid; Domoic acid (Schmued, L. (837) 289)

Calcium; Oligodendrocyte; Apoptosis; Jimpy; Proteolipid protein; DM-20 protein; Fura-2 (Knapp, P.E. (847) 332)

Myelinated and unmyelinated axons
Escape behavior; Tetrodotoxin; Cadmium chloride; Optic tectum; Optic nerve; OFF fiber (King Jr., J.G. (841) 20)

Myelination
Oligodendrocytes; Ferritin; Iron; Stress-regulated protein (Cho, S.S. (816) 229)

Myenteric ganglia
Adenylyl cyclase isoform; Cyclic AMP; FlCRhR fluorescence; Calbindin-D_{28} immunoreactive myenteric neuron; AH/Type 2 neuron; Enteric glia (Liu, C.Y. (826) 253)

Myocardial infarction
Heart; Kidney; Liver; Spleen; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Mytilus galloprovincialis
Endogenous morphine; Invertebrate nervous system; Invertebrate immune system; Trauma response; High performance liquid chromatography; Immunohistochemistry; *Planorbarius corneus* (Sonetti, D. (835) 137)

N

N1
Event-related potential; Selective attention; Modality specific processing; Supramodal brain system; Negativity difference; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Na^+
K^+-ATPase; Hyperargininemia; *N*-Acetylarginine; Homoarginine; Argininic acid; Guanidino compound (Da Silva, C.G. (838) 78)

NAALADase
Methotrexate hexaglutamate; 2-PMPA; Neurotoxicity; In vitro (Thomas, A.G. (843) 48)

NACP
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NADPH-d
Male rat; Castration; Dopamine; Tyrosine hydroxylase; Medial preoptic area; Nitric oxide synthase; Paraventricular nucleus; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

NADPH-diaphorase
Marine bird; Osmoregulation; Nitric oxide; Hypothalamus; Central control of salt gland function; Avian antidiuretic hormone; Cerebrospinal fluid contacting neuron (Hübschle, T. (825) 22)

c-Fos; Nociception; Colocalization; Rat (Rodella, L. (834) 173)

NADPH diaphorase activity
Optic lobe; Visual functionality; Medfly (Conforti, E. (843) 1)

Na^+-free
Fura-2AM; Cytosolic Ca^{2+}; Na^+/K^+ exchanger antagonist; L-type voltage-gated Ca^{2+} channel; D600; Ca^{2+}-free (Sato, M. (828) 193)

Na^+/K^+ ATPase
Alzheimer's disease; Amyloid beta peptide; Cultured neuron; Zinc (Lovell, M.A. (823) 88)

Na^+, K^+ATPase
Ouabain; Spreading depression; Hypoxia; Ischemia; Hippocampus; Brain slice (Balestrino, M. (838) 37)

Na^+/K^+ exchanger antagonist
Fura-2AM; Cytosolic Ca^{2+}; L-type voltage-gated Ca^{2+} channel; D600; Ca^{2+}-free; Na^+-free (Sato, M. (828) 193)

Na^+/K^+ pump isoform
Dorsal root ganglion; Immunohistochemistry; Neuron subpopulation (Dobretsov, M. (821) 212)

NalBzoH
Nociceptin receptor; Knockout mouse; Learning and memory; κ3-Opioid receptor (Nabeshima, T. (848) 167)

Naloxone
Fos; Trigeminal subnucleus caudalis; Tooth movement (orthodontic); Periodontal ligament; Morphine (Aihara, Y. (819) 48)

Opioid receptor-like 1; Blood pressure; Heart rate; Circulation; Opiate; Enkephalin; NC-NH_2 (Chu, X. (829) 134)

c-Fos expression; Formalin test; Spinal dorsal horn; Descending inhibition; Phentolamine; Cyproheptadine; Intrathecal (Liu, R.-J. (830) 183)

Periaqueductal grey; Nociceptive response latency; Galanin; Opioid peptide (Wang, D. (834) 152)

Discrimination; Morphine; Paraventricular nucleus; Perifornical area (Cleary, J.P. (847) 26)

Naloxone-precipitated hyperalgesia
Morphine; Fentanyl; Analgesia; MK-801; NMDA pain facilitatory processes (Célèrier, E. (847) 18)

Naltrexone
Endomorphin-2; Ala-pyrrolidonyl-2-nitrile; Dipeptidyl peptidase IV; D-Pro^2-endomorphin-2; Pain; Analgesia (Shane, R. (815) 278)

L-NAME
Petrosal ganglion neurons; Nitric oxide; Sodium nitroprusside; Acetylcholine; Carotid body chemoreceptors (Alcayaga, J. (825) 194)

Nitric oxide (NO); Linsidomine; SNAP; SNOG; Sodium nitroprusside; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

Nanogold
Somatostatin-receptor subtype; Anti-sst antibody; Somatostatin-gold (Segond von Banchet, G. (816) 254)

Nanoliter-flow capillary liquid chromatography
Globus pallidus; Hypothalamus; Neurotensin; Ventral pallidum; Tandem mass spectrometry; Micro-electrospray (Andrén, P.E. (845) 123)

NAP-22
Synapse; Spinal cord; Synapsin; Synaptobrevin (Iino, S. (834) 66)

Native AMPA receptor
GluR2 subunit; Open channel blocking drug; Adamantane derivative (Buldakova, S.L. (846) 52)

NBM
Acetylcholine; ChAT; Microdialysis; Muscarinic antagonist (Gutiérrez, H. (834) 136)

NBQX
Rabbit retina; AII amacrine; DNQX; Excitatory amino acid receptor (Cohen, E.D. (831) 206)

Focal cerebral ischemia; TGF-β1; Cytokine; GFAP; c-*fos*; hsp70; MK-801; Cingulate cortex (Yamashita, K. (836) 139)

Kainic acid; AMPA; Propidium iodide; Neocortex; Striatum (Kristensen, B.W. (841) 143)

NCL
Delay; Reward; Bird; Forebrain (Kalt, T. (839) 263)

NC-NH$_2$
Opioid receptor-like 1; Blood pressure; Heart rate; Circulation; Opiate; Enkephalin; Naloxone (Chu, X. (829) 134)

Necrosis
Serum deprivation; Dexamethasone; Cytotoxicity; Rat C6 glioma cell; Glucocorticoid receptor (Morita, K. (816) 309)

Melatonin; PC12 cell; 6-hydroxydopamine; Electron microscopy; Apoptosis (Mayo, J.C. (818) 221)

Ischemia/reperfusion; Trail; CD95-L; TNF-α; c-*jun*; FADD (Herr, I. (826) 210)

Kainate; Apoptosis; Cerebellar granule cells; Calcium; Voltage-gated calcium channel (Leski, M.L. (828) 27)

Acetaldehyde; Astrocyte; Apoptosis; Ethanol; Rat (Holownia, A. (833) 202)

Apoptosis; Microglia; Müller cell; Photoreceptor cell; Lactate dehydrogenase; Nick-end labeling; Retinal degeneration (Roque, R.S. (836) 110)

Adrenalectomy; Hippocampus; Nerve degeneration; Apoptosis (Islam, A. (849) 226)

Nefiracetam
Acetylcholine receptor; Nootropic drug; PC12 cell; Protein kinase; G protein (Oyaizu, M. (822) 72)

Nootropic; Synaptic transmission; Nicotinic acetylcholine receptor; Long-term potentiation; Hippocampus (Nishizaki, T. (826) 281)

Negative feedback
Hippocampus; Hypothalamus; Paraventricular nucleus; Neural stimulus; CRH-41; Glucocorticoid receptor antagonist (Feldman, S. (821) 33)

Prolactin; Placental lactogen; Pregnancy; β-endorphin; Fos; Rhythm; Mediobasal hypothalamus; Rat (Lee, Y. (837) 152)

Negativity difference
Event-related potential; Selective attention; Modality specific processing; Supramodal brain system; N1; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Neocortex
GABA; Interneuron; Astrocyte; Hippocampus (Yan, X.-X. (816) 317)

Progesterone receptor; Neuroactive steroid; Adenylyl cyclase; Female rat; Protein kinase A (Al-Dahan, M.I. (824) 258)

Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neuronal loss; Neuronal size distribution; Optical dissector; Rotator; Stereology (Fischer, C.P. (828) 119)

Calcium signal; Calcium-induced calcium release (Kato, N. (832) 179)

Kainic acid; AMPA; NBQX; Propidium iodide; Striatum (Kristensen, B.W. (841) 143)

α-Neoendorphin
Kappa; Opioid; Analgesia; Antisense mapping; Kappa$_1$ receptor; Dynorphin B (Pasternak, K.R. (826) 289)

Neomycin
Excitotoxicity; NMDA receptor; Ototoxicity; Aminoglycoside; Polyamine (Segal, J.A. (815) 270)

Neomycin intoxication
Organotypic culture; Protective action; Retinoic acid; Insulin; Epidermal growth factor; Transforming growth factors (Romand, R. (825) 46)

Neonatal
Hypoxia; Ischemia; Ketamine; Rat; Hippocampus (Spandou, E. (819) 1)

Neonatal rat
Periventricular leukomalacia; White matter injury; Cerebral hypoperfusion; Cerebral blood flow; Amyloid precursor protein (Uehara, H. (837) 213)

Neonate
Control of breathing; Hypoxia; Piglets (St.-John, W.M. (819) 147)

HB-EGF; Hypoxic/ischemic; NMDA; Neuroprotection (Tanaka, N. (827) 130)

Cross tolerance; Heat shock protein; Hyperthermia; Hypoxic ischemia (Wada, T. (847) 299)

Neostriatum
Calcium channel; Excitotoxity; Metabotropic glutamate receptor; *N*-Methyl-D-aspartate; Toxicity (Colwell, C.S. (833) 234)

Ribosome inactivating protein; Basal forebrain; Cholinergic neuron; Immunocytochemistry (Kwok, K.H.H. (846) 154)

Nerve
TNF-α; IL-1β; Ischemia; Reperfusion; Cytokines (Mitsui, Y. (844) 192)

Nerve degeneration
Adrenalectomy; Hippocampus; Apoptosis; Necrosis (Islam, A. (849) 226)

Nerve grafting
Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Vascular endothelial growth factor; Nerve growth factor (Sondell, M. (846) 219)

Nerve growth factor
Neuroregeneration; Capsaicin; Calcitonin gene-related peptide; Primary afferent; Immunohistochemistry (Schicho, R. (815) 60)

Diacylglycerol; Phosphatidylcholine; Long chain acyl-CoA synthetase; Phospholipase; PC12 cell (Li, J. (818) 252)

Axotomy; Peripheral nerve graft; Conditioning lesion; Brain-derived neurotrophic factor; Neurotrophin-3 (Oudega, M. (818) 431)

Brain-derived neurotrophic factor; Neurotrophin-3; Neuropeptide Y; Epilepsy; Human (Takahashi, M. (818) 579)

Ethacrynic acid; c-*fos*; Generalized tonic–clonic convulsion; Seizure susceptibility; Parvalbumin (Suzukawa, J. (834) 89)

Calcium; Dopamine beta hydroxylase; Calcium channel; Retrograde axonal transport (Bartlett, S.E. (837) 8)

Enzyme-linked immunosorbent assay; Brain; Endogenous level (Fawcett, J.R. (842) 206)

Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Nerve grafting; Vascular endothelial growth factor (Sondell, M. (846) 219)

Nerve injury
Afferent type; Ectopic firing; Neuroma; Neuropathic pain (Tal, M. (824) 218)

Infraorbital nerve; Thalamus; Sensory trigeminal nuclear complex; Apoptosis; Newborn rat (Sugimoto, T. (824) 284)

Brain lesion; Neuropeptide Y (NPY); NPY Y1-receptor; Tracing (Pesini, P. (828) 41)

Allodynia; Supraspinal/spinal synergy; Morphine; Dynorphin; MK-801 (Bian, D. (831) 55)

Nociception; Pain; Spinal cord (Xu, I.S. (833) 251)

Hyperalgesia; Nociception; Rat; Sciatic nerve ligation (Novak, J.C. (833) 308)

S-100; Periodontal ligament; Ruffini ending; Schwann cell; Regeneration; Immunohistochemistry (Atsumi, Y. (849) 187)

Nerve process
Semaphorin IV; Human brain; Immunohistochemistry; Hippocampus (Hirsch, E. (823) 67)

Nerve projection
Octavolateral center; Mesencephalon; Tract tracing; Horseradish peroxidase; Carbocyanine; Brain; Agnathan (González, M.J. (826) 83)

Nerve regeneration
Rat sciatic nerve; Peripheral nerve; Nerve grafting; Vascular endothelial growth factor; Nerve growth factor (Sondell, M. (846) 219)

Nervous system
Pacemaker; Circadian rhythm; Cytokine; Development (Lundkvist, G.B. (849) 231)

Nervus terminalis
Gonadotropin-releasing hormone; Migration; Olfactory system; Olfactory placode; Human brain (Kim, K.H. (826) 220)

Nestin
Brain plasticity; Middle cerebral artery occlusion; Rat (Li, Y. (838) 1)

Traumatic brain injury; Astrocyte; Microglia; Plasticity (Sahin Kaya, S. (840) 153)

Neural cell adhesion molecule
Corticosterone; Chronic corticosterone; Neural plasticity; Frontal cortex; Hypothalamus (Sandi, C. (828) 127)

Methylmercury; Sialyltransferase; Cerebellum; Development; Polysialylation (Dey, P.M. (845) 139)

Neural crest
Leptomeningeal melanoma; Neuroendocrine differentiation; Neurofilament; Retinoic acid (Sorrentino, G. (827) 205)

Neural damage
Global ischemia; PGE_2-induced hyperthermia; Head (brain) cooling (Thornhill, J. (825) 36)

Neural latency response normalization
Area 5; Trained monkey; Deafferentation; Command cell; Reorganization of spontaneous activity; Reaction time (Bioulac, B. (835) 266)

Neural plasticity
(−) Deprenyl; Monkey prefrontal cortex; Layer III pyramidal neuron; Dendritic arborization; Golgi staining (Shankaranarayana Rao, B.S. (821) 218)

Corticosterone; Chronic corticosterone; Neural cell adhesion molecule; Frontal cortex; Hypothalamus (Sandi, C. (828) 127)

Long-term potentiation; Circadian rhythm; CA1 pyramidal cell; *Mesocricetus auratus* (Raghavan, A.V. (833) 311)

Neural prosthesis
Micturition; Genitourinary; Parasympathetic; Electrical stimulation (Grill, W.M. (836) 19)

Neural stimulus
Hippocampus; Hypothalamus; Paraventricular nucleus; CRH-41; Glucocorticoid receptor antagonist; Negative feedback (Feldman, S. (821) 33)

Neural transplantation
Oxidative stress; Lipid peroxidation; Dopamine; Parkinson's disease; Anesthesia (Karlsson, J. (821) 546)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Neurotrophic factor; Neuroprotection (Yurek, D.M. (845) 21)

Neurite growth
Axonal transport; Protein kinase C; Ca^{2+}/calmodulin-dependent protein II kinase (Hiruma, H. (826) 135)

Neurite outgrowth
L-Deprenyl; Neurotrophic; Brain derived neurotrophic factor; Parkinson's disease (Kontkanen, O. (829) 190)

Myelin; Dorsal root ganglion; Regeneration; Central nervous system; Peripheral nervous system (Ng, W.P. (836) 49)

Apoptosis; Neurotrophin; Signal transduction; LY294002; Wortmannin (Virdee, K. (837) 127)

Neuroactive steroid
Progesterone receptor; Adenylyl cyclase; Neocortex; Female rat; Protein kinase A (Al-Dahan, M.I. (824) 258)

Neuroanatomy
Suprachiasmatic nucleus; Pseudorabies virus; Circadian rhythm; Hypothalamus (Leak, R.K. (819) 23)

Neurobiotin
Retrograde tracing; Anterograde tracing; Pallium; Telencephalic subregion; Sensory processing (Von der Emde, G. (818) 355)

Neurobiotin labeling
Somatosensory cortex; Visceronociceptive neuron; Intracellular recording; Pain (Jinghong, C. (846) 243)

Neuroblast
Drosophila; *Trol*; Ecdysone; Culture (Datta, S. (818) 77)

Neuroblastoma cell
Replication inhibitor; Catecholamine; Sodium butyrate; Biochemical differentiation (Matsui, T. (843) 112)

Neurodegeneration
Indole acids; Glutathione; Lipid peroxidation; Neuroprotection; Striatum (Poeggeler, B. (815) 382)

Interleukin-1; AMPA; Excitotoxicity; Temperature; Fever; Striatum (Grundy, R.I. (830) 32)

TUNEL assay; Klenow assay; ISEL; Cell death; Hippocampus (Adamec, E. (849) 67)

Neurodegenerative disease
Sodium cyanate; GSH; GSSG; Glutathione homeostasis; Glutathione reductase; Glutathione peroxidase; Neurotoxicity (Tor-Agbidye, J. (820) 12)

Neuron–microglia interaction; Immunoglobulin superfamily; LFA-1; Microglial cell line (Mizuno, T. (849) 58)

Neuroendocrine
Acute stressor; Hypothalamus; Nitric oxide; Histochemistry; Rat (Sánchez, F. (828) 159)

Action potential; Bag cell neuron; Calcium; Protein kinase C (Wayne, N.L. (834) 211)

Neuroendocrine cell
Secretion; Proteolytic processing; Protein release; Protease; Tissue plasminogen activator; Storage granule; AtT20 cell (Santell, L. (816) 258)

Neuroendocrine differentiation
Leptomeningeal melanoma; Neural crest; Neurofilament; Retinoic acid (Sorrentino, G. (827) 205)

Neurofibrillary tangle
Okadaic acid; Tau phosphorylation; Dystrophic neurite (Kim, D. (839) 253)

Transglutaminase; Paired helical filament; Cross-linking; Polymerization (Norlund, M.A. (851) 154)

Neurofibromatosis
NF1; Astrocyte; Gliosis; Learning disability; Ras; Mouse; Neurofibromin (Rizvi, T.A. (816) 111)

Neurofibromin
Neurofibromatosis; *NF1*; Astrocyte; Gliosis; Learning disability; Ras; Mouse (Rizvi, T.A. (816) 111)

Neurofilament
Leptomeningeal melanoma; Neural crest; Neuroendocrine differentiation; Retinoic acid (Sorrentino, G. (827) 205)

Neurofilament protein
Multiple sclerosis; Axonal degeneration; Microtubule; Macrophage; Anti-galactocerebroside (Zhu, B. (824) 204)

Neurogenesis
Transient forebrain ischemia; 5-Bromodeoxyuridine; Dentate gyrus (Takagi, Y. (831) 283)

Olfaction; Dopamine; Receptor; Differentiation (Féron, F. (845) 252)

Regeneration; Olfactory system; Rat; Zinc sulfate; Growth factor (Herzog, C. (849) 155)

Neurogenetics
Parkinson's disease; Neurotoxin; Basal ganglia; Gender (Hamre, K. (828) 91)

Neuroglial culture
Cerebellar granule neuron; Neurotoxicity; Aluminum; Apoptosis; Astroglial culture (Suárez-Fernández, M.B. (835) 125)

Neuroimmunology
Monocyte/macrophage; Cytokine; Interleukin-1β; Tumor necrosis factor-α; Interleukin-10 (Woiciechowsky, C. (816) 563)

Neuroimmunomodulation
Prostaglandin E_2; Brain; Endothelial cell; Endotoxin; Fever (Li, S. (825) 86)

Neurointermediate lobe
N-Methyl-D-aspartate; GABA release (Pampillo, M. (842) 469)

Neurokinin
Cerebral blood vessel; Substance P; Substance P receptor (neurokinin-1 receptor) (Shimizu, T. (830) 372)

Neurokinin 1 receptor
PKCγ; Neurotensin; Somatostatin; μ Opioid receptor; Neuropathic pain (Polgár, E. (833) 71)

Neuroleptic
Immediate-early genes; c-*fos*; Subthalamic nucleus; Dopamine; Primate (Wirtshafter, D. (835) 154)

Neurological deficit
Subarachnoid hemorrhage; Cerebral vasospasm; Amyloid precursor protein; Nitric oxide; Animal model (Ryba, M.S. (850) 225)

Neurologic disorder
Interferon; Transgenic; Astrocyte (Campbell, I.L. (835) 46)

Neuroma
Afferent type; Ectopic firing; Nerve injury; Neuropathic pain (Tal, M. (824) 218)

Neuromagnetic source localization
Transient evoked field; Human visual cortex; Extrastriate area; Retinotopy; Superposition of response; Paired stimuli (Supek, S. (830) 43)

Neuromodulation
Microiontophoresis; Opioid peptide; Active sleep; Motoneuron; Cat (Xi, M.-C. (819) 155)

Acetylcholine; Arachidonic acid; Hippocampus (Almeida, T. (826) 104)

Glutamate receptor channel; Patch clamp; Decay time constant; Single channel recording; Miniature synaptic current (Nishikawa, K.-i. (837) 67)

Neuromodulator
Calcium; Climbing fiber; Dendrite; Purkinje cell (Pisani, A. (831) 113)

Neuromorphology
Rat; Enadoline; κ-Opioid receptor; Pentylenetetrazol; Seizure; Kindling; Learning; Shuttle-box; Glutamate binding (Becker, A. (823) 191)

Neuromuscular junction
Acetylcholine receptor; Dystrophin; Agrin; Muscle regeneration; Satellite cell (Kong, J. (839) 298)

Facilitation; Crayfish; Synapse (Crider, M.E. (842) 324)

Calcitonin gene-related peptide; Acetylcholinesterase molecular forms; Trophic control; Adult skeletal muscle (Fernandez, H.L. (844) 83)

Neuromuscular junctions
Siberian hamster; Photoperiod; Spinal nucleus of the bulbocavernosus; Sexual dimorphism (Hegstrom, C.D. (819) 83)

Neuron
Brain-derived neurotrophic factor; Glia; Immunohistochemistry; Monkey brain (Kawamoto, Y. (821) 341)

Glucose; Fetal; Blood–brain barrier (Sadiq, H.F. (823) 96)

Glia; mRNA; Fetal; Postnatal (Devaskar, S.U. (823) 113)

Heart; Kidney; Liver; Intestine; Spleen; Inflammation; Polymerase chain reaction (Yasojima, K. (830) 226)

Bcl-2; Transgenic mouse; Learning; Maze; Behavior (Coleman, G.J. (832) 188)

Heart; Kidney; Liver; Myocardial infarction; Spleen; Inflammation; Polymerase chain reaction (Yasojima, K. (833) 297)

p53; Focal ischemia; Stroke-prone spontaneously hypertensive rat; Apoptosis (Watanabe, H. (837) 38)

Dorsal root ganglion; Ectopic spontaneous discharge; Calcium-dependent potassium channel (Xing, J.-L. (838) 218)

Development; Subcellular targeting; Choroid plexus (Fields, H.M. (846) 260)

Dura; Estradiol; Histamine; Mast cell; Migraine; Neuropeptide; Secretion; Substance P; Stress (Rozniecki, J.J. (849) 1)

Rat; Cerebral cortex; Glutamate; Caspase; Apoptosis (Hirashima, Y. (849) 109)

3-Nitropropionic acid; Neurotoxicity; Succinate dehydrogenase; Astrocyte; NMDA-receptor (Olsen, C. (850) 144)

Neuronal
Metalloprotease; Synapse; Immunohistochemistry (Huber, A.B. (837) 193)

Neuronal apoptosis
Kainic acid; c-Jun; Phosphorylation; Cyclooxygenase; Oxidative stress (Matsuoka, Y. (836) 213)

Neuronal cell culture
Patch clamp; Tract tracing; Sodium channels; Potassium channels (Johnson, R.F. (817) 226)

Neuronal cell death
Bcl-2; Bax; Axotomy; Hypoglossal nerve; Adult rat; Apoptosis (Baba, N. (827) 122)

Neuronal culture
Hippocampal; Magnesium; Phosphatase; Phosphorylation; Seizure (Blair, R.E. (851) 54)

Neuronal damage
Creatine; Phosphocreatine; Hypoxia; Ischemia; Anoxic depolarization; Protection (Balestrino, M. (816) 124)

Cardiac arrest; Cerebral ischemia; Diltiazem; Hippocampal CA1; MK-801; Neuroprotection; Synergism (Li, M.M. (826) 44)

Brain ischemia; Glycemia; HSP_{72}; Astrogliosis; Gerbil (Garnier, P. (836) 245)

Neuronal death
Cerebral ischemia; Immediate early gene; Hippocampus; Gene expression; JunB-glial fibrillary acidic protein (Whitfield, P.C. (818) 450)

Ischemia; Glutamate; *N*-methyl-D-aspartate; Ganglion neurons (Yoon, Y.H. (823) 33)

Antioxidant; Salicylic acid; Redox status; Chick embryo; Retina (Castagné, V. (840) 162)

Signal transduction; Mitogen-activated protein kinase; Redox status; Retina; Axotomy (Castagné, V. (842) 215)

Neuronal degeneration
Mastication; Aging; Hippocampus; Learning and memory (Onozuka, M. (826) 148)

Lewy body; NACP; Synuclein; Tau; Filament aggregation (Arima, K. (843) 53)

Neuronal development
Postnatal ethanol treatment; γ-Aminobutyric $acid_A$ receptor; Cerebellum; Purkinje neuron; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (832) 124)

Neuronal differentiation
Retinoblastoma protein; Embryonal carcinoma cell; Site-specific anti-phospho-pRb antibody; Cyclin-dependent kinase (Watanabe, Y. (842) 342)

Neuronal excitability
Eicosapentaenoic acid; Seizure; Pentylenetetrazole; Glutamate (Xiao, Y.-F. (846) 112)

Neuronal lesion
Central nervous disorder; Lubeluzole; Retina; Spreading depression (Wiedemann, M. (842) 243)

Neuronal loss
Alzheimer's disease; Cerebellum; Atrophy; Morphometry; Clinicopathological correlation (Wegiel, J. (818) 41)

Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neocortex; Neuronal size distribution; Optical dissector; Rotator; Stereology (Fischer, C.P. (828) 119)

Neuronal plasticity
Behavioral sensitization; DOPA-induced dyskinesia; Matrix; Striosome (Saka, E. (825) 104)

Epilepsy; Ihara epileptic rat; Limbic-like seizure; Mossy fiber sprouting (Amano, S. (834) 214)

Neuronal size distribution
Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neocortex; Neuronal loss; Optical dissector; Rotator; Stereology (Fischer, C.P. (828) 119)

Neuron death
3,4-Dihydroxyphenylglycolaldehyde; Neurotoxin; Locus ceruleus; Alzheimer's disease (Burke, W.J. (816) 633)

Neuron-glial interaction
Potassium channel pharmacology; Acetylcholine release; Calcium influx; Sodium influx; Input resistance (Müller, M. (826) 63)

Neuron-like network
Rat pineal; Electrophysiology; In vitro (Schenda, J. (823) 231)

Neuron–microglia interaction
Immunoglobulin superfamily; LFA-1; Microglial cell line; Neurodegenerative disease (Mizuno, T. (849) 58)

Neurons
Glutamate; Neurotoxicity; Mitochondrial depolarization; Rhodamine 123 (Almeida, A. (816) 580)

SNAP-25; SNAP-23; Syntaxin; t-SNAREs; Membrane trafficking (Chen, D. (831) 11)

Neuron subpopulation
Dorsal root ganglion; Na^+/K^+ pump isoform; Immunohistochemistry (Dobretsov, M. (821) 212)

Neuropathic pain
Chronic constriction injury; Allodynia; Plasticity; Transganglionic axonal tracer (Nakamura, S.-i. (818) 285)

Afferent type; Ectopic firing; Nerve injury; Neuroma (Tal, M. (824) 218)

PKCγ; Neurotensin; Somatostatin; μ Opioid receptor; Neurokinin 1 receptor (Polgár, E. (833) 71)

Axotomy; Dorsal horn; Dorsal column nucleus; Immediate early gene; Baclofen (Tokunaga, A. (847) 321)

Spontaneous activity; DRG (Liu, X. (849) 244)

Immediate-early gene; Hypersensitivity; Immunohistochemistry (Siddall, P.J. (851) 281)

Neuropathological change
Autoradiography; cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Hippocampus; Alzheimer's disease; Amyloid deposit; Staging (Bonkale, W.L. (818) 383)

Neuropathology
Ischemic tolerance; Nitric oxide; Mitochondria; Hippocampus (Centeno, J.M. (836) 62)

Neuropathy
Neuropeptide; Cholecystokinin; Morphine; Opioid; Inflammation; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Neuropeptide
Tachykinin-related peptide; FMRFamide; Allatotropin; Insect nervous system; Sensory neuron (Persson, M.G.S. (816) 131)

Paraventricular; Lateral hypothalamus; Ingestive behavior (Kay-Nishiyama, C. (822) 251)

Striatum; In situ hybridization; GABA; Amphetamine; SKF-82958 (Jones, E.A. (836) 99)

Evolution; Oxytocin; Vasopressin; Neuropeptide Y; Receptor (Hoyle, C.H.V. (848) 1)

Proprotein convertase; Subtilase; Precursor processing; SKI-1/S_1P; Cholesterol and fatty acid metabolism (Seidah, N.G. (848) 45)

Orphan G-protein-coupled receptor; Serendipity; Reverse pharmaceutical research (Civelli, O. (848) 63)

Cholecystokinin; Morphine; Opioid; Neuropathy; Inflammation; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Cocaine; Feeding (Adams, L.D. (848) 137)

Dura; Estradiol; Histamine; Mast cell; Migraine; Neuron; Secretion; Substance P; Stress (Rozniecki, J.J. (849) 1)

Preoptic area; Bed nucleus of the stria terminalis; In situ hybridization; Avian brain; Male sexual behavior (Panzica, G. (850) 55)

Nuclear enzyme; Peptide; Intracellular metabolism; Endopeptidase; Oligopeptidase (Massarelli, E.E. (851) 261)

Neuropeptide FF
Amphetamine; Drug addiction; Glutamate; Medial prefrontal cortex; Serotonin (Chen, J.-C. (816) 220)

Rat spinal cord; Monoarthritis; Nociception; Descending inhibitory control; Chronic pain (Lombard, M.-C. (816) 598)

Dorsal raphe neuron; Intracellular calcium; Nociceptin; Serotonin; μ-Opioid agonist (Roumy, M. (845) 208)

Neuropeptide Y
Peptidergic neuron; Neurotrophin; SRIF; BDNF; gp120; Brain (Barnea, A. (815) 349)

Suprachiasmatic nucleus; Circadian rhythm; Melatonin; Serotonin; Cyclic AMP; Brain slice (Prosser, R.A. (818) 408)

Brain-derived neurotrophic factor; Nerve growth factor; Neurotrophin-3; Epilepsy; Human (Takahashi, M. (818) 579)

Lactation; Suckling; Arcuate nucleus; Retrograde tracing (Li, C. (824) 267)

Median preoptic nucleus; Ventrolateral medulla; Catecholamine; Synapse; Retrograde tracing (Kawano, H. (825) 204)

Sphenopalatine ganglion; Otic ganglion; Vasoactive intestinal peptide; Calcitonin gene-related peptide; Human (Uddman, R. (826) 193)

Cardiac ganglia; Parasympathetic neuron; Immunocytochemistry; Reverse transcription polymerase chain reaction; Microtubule-associated protein-2; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Long-term potentiation; c-Jun-activated protein kinase; Dentate gyrus; Glutamate release (Whittaker, E. (827) 229)

Hypothalamus; Leptin receptor; Proopiomelanocortin; Food intake (Baskin, D.G. (828) 154)

Corticotropin-releasing factor; Noda epileptic rat; Radioimmunoassay; In situ hybridization (Jinde, S. (833) 286)

DAMGO; Paraventricular nucleus; Sucrose (Giraudo, S.Q. (834) 160)

Rhythm; Entrainment; Arcuate nucleus; Food deprivation; Masking; Obesity (Mistlberger, R.E. (842) 73)

Neuropeptide; Evolution; Oxytocin; Vasopressin; Receptor (Hoyle, C.H.V. (848) 1)

Hypothalamus; Obesity; Arcuate nucleus; Paraventricular nucleus; Dopamine; Norepinephrine; Transporter (Baskin, D.G. (848) 114)

Hippocampus; Seizure; Cognition (Redrobe, J.P. (848) 153)

Circadian rhythm; IGL; Suprachiasmatic nucleus; Non-photic; Serotonin (Schuhler, S. (849) 16)

Proopiomelanocortin; Diet-induced obesity; Hypothalamus; High-fat diet (Bergen, H.T. (851) 198)

Neuropeptide Y-(13-36)
NPY; [Leu^{31},Pro^{34}]neuropeptide Y; PYY-(3-36); N^G-monomethyl-L-arginine (L-NMMA); Nitric oxide (Bitran, M. (851) 87)

Neuropeptide Y, NPY
Circadian rhythm; Suprachiasmatic nucleus; γ-Aminobutyric acid, GABA; Baclofen; Rat, brain slice (Biggs, K.R. (821) 461)

Neuropeptide Y (NPY)
Behavior; Burrowing; Feeding; Grooming; Orexin (Ida, T. (821) 526)

Brain lesion; Nerve injury; NPY Y1-receptor; Tracing (Pesini, P. (828) 41)

Agouti-related protein (AgRP); Melanocortin-4 receptor (MC4R); NPY-deficient mice; MC4R-deficient mice; Hypothalamus; Feeding behavior (Marsh, D.J. (848) 66)

Neurophysin
Glucocorticoid-receptor deficiency; Median eminence; Corticotropin-releasing hormone; Vasopressin (Kretz, O. (818) 488)

Neuroprotection
Indole acids; Glutathione; Lipid peroxidation; Neurodegeneration; Striatum (Poeggeler, B. (815) 382)

Ethanol; Calcium; Nicotinic receptor; Pheochromocytoma (PC12) cell (Li, Y. (816) 225)

Ischemia; Anoxia; Glutamate; AMPA; NMDA (Arias, R.L. (816) 299)

21-Aminosteroid; Antioxidant; Ischemia–reperfusion; Oxygen free radical; Pyrrolopyrimidine (Schmid-Elsaesser, R. (816) 471)

Bcl-2; Apoptosis; Fetal alcohol syndrome; Ethanol (Heaton, M.B. (817) 13)

Growth/differentiation factor 5; Parkinson's disease; 6-Hydroxydopamine; Dopamine (Sullivan, A.M. (818) 176)

Fastigial cerebellar nucleus; Spreading depression; Preconditioning; Cerebral focal ischemia; Periinfarct depolarization (Golanov, E.V. (818) 304)

Glycine site antagonist; GV150526A; L-701; 324; ACEA1021; LY293558; Cerebral ischaemia; Gerbil (Hicks, C.A. (819) 65)

TNF; Ceramide; SPP; Mesencephalic neuron; Parkinson's disease (Shinpo, K. (819) 170)

Dextromethorphan; Hippocampus; Kainic acid; Activator protein-1; Fos-related antigen (Kim, H.-C. (824) 125)

Cardiac arrest; Cerebral ischemia; Diltiazem; Hippocampal CA1; MK-801; Neuronal damage; Synergism (Li, M.M. (826) 44)

Ischemia; Rat; Hypothermia; Peripheral nerve (Mitsui, Y. (827) 63)

N-Methyl-D-aspartate; Glutamate; Neurotoxicity; Apoptosis; Neurotrophins (Rocha, M. (827) 79)

HB-EGF; Hypoxic/ischemic; Neonate; NMDA (Tanaka, N. (827) 130)

Cerebral ischemia; γ-Aminobutyric acid; Hypothermia; CA1 (Dowden, J. (829) 1)

Focal cerebral ischemia; Middle cerebral artery occlusion; Immunohistochemistry; Poly(ADP-ribose) polymerase; Laser Doppler flowmetry; Rat (Takahashi, K. (829) 46)

Global ischaemia; Ascorbic acid; Striatum; Gerbil; Rat; Hippocampus; Dopamine (Stamford, J.A. (835) 229)

Status epilepticus; Seizure; Hippocampus; Topiramate; Rat (Niebauer, M. (837) 263)

Antioxidant; Glutathione (GSH); Catalase; Superoxide dismutase (SOD); Free radical; PD (Iida, M. (838) 51)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Neurotrophic factor; Neural transplantation (Yurek, D.M. (845) 21)

Albumin; Global cerebral ischemia; Stroke (Belayev, L. (845) 107)

Acute subdural hematoma; Rat; Serotonin 5-HT_{1A} agonist; BAY X3702; Ischemia (Alessandri, B. (845) 232)

Cytokine; Excitatory amino acid; Immunohistochemistry; Excitotoxicity (Liu, X.-H. (851) 94)

Neuroprotective effect
Carbon monoxide poisoning; Hypoxic depolarization; Spreading depression; Hippocampus; Place navigation (Koroleva, V.I. (816) 618)

Neuroregeneration
Nerve growth factor; Capsaicin; Calcitonin gene-related peptide; Primary afferent; Immunohistochemistry (Schicho, R. (815) 60)

Neurosteroid
Alphaxalone; Allopregnanolone; Oocyte; Recombinant $GABA_A$ receptor; Voltage-clamp (Maitra, R. (819) 75)

$GABA_A$ receptor; Dehydroepiandrosterone sulfate; Pregnanolone; Allopregnanolone (Park-Chung, M. (830) 72)

Pregnenolone sulfate; NMDA receptor; $GABA_A$ receptor; Seizure (Kokate, T.G. (831) 119)

$GABA_A$ receptor; Nitric oxide (Mehta, A.K. (832) 164)

Anxiolytic; Hippocampus; Lateral septum; Elevated plus-maze; Defensive burying test (Bitran, D. (850) 217)

Neurosteroids
Non-genomic; Progesterone; Mouse; Lordosis; PRKO mouse (Frye, C.A. (815) 259)

Neurotensin
Dopamine; Ibogaine; Cocaine; Methamphetamine; Drug abuse (Alburges, M.E. (818) 96)

PKC γ; Somatostatin; μ Opioid receptor; Neurokinin 1 receptor; Neuropathic pain (Polgár, E. (833) 71)

Paraventricular nuclei; Hypothalamus; Vasopressin; Double immunostaining; Synapse; Electron microscopy (Wang, Q.-P. (834) 25)

Globus pallidus; Hypothalamus; Ventral pallidum; Tandem mass spectrometry; Micro-electrospray; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Ibogaine; Cocaine; Dynorphin; Striatum; Nucleus accumbens (Alburges, M.E. (847) 139)

Neurotoxicity
Glutamate; Sodium channel; Intracellular calcium (Shimojo, M. (815) 131)

Feline immunodeficiency virus; gp120; Glutamate (Bragg, D.C. (816) 431)

Glutamate; Mitochondrial depolarization; Rhodamine 123; Neurons (Almeida, A. (816) 580)

Cell culture; Excitotoxicity; Glutamate; Hypoglycemia; Ischemia (Regan, R.F. (817) 145)

Nitric oxide; Quinolinic acid; Enkephalinergic (Kalisch, B.E. (817) 151)

Methamphetamine; Selenium; Dopamine; Caudate nucleus; Oxidative stress (Imam, S.Z. (818) 575)

Sodium cyanate; GSH; GSSG; Glutathione homeostasis; Glutathione reductase; Glutathione peroxidase; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

Ibogaine; Methamphetamine; Hyperthermia; Heat-shock-protein; Caudate nucleus; Striatum (Yu, X. (823) 213)

Trimetazidine; Kainic acid; Cochlea; Electrophysiology (Gil-Loyzaga, P. (826) 95)

N-Methyl-D-aspartate; Glutamate; Apoptosis; Neuroprotection; Neurotrophins (Rocha, M. (827) 79)

Lentivirus; Maedi Visna virus; Human immunodeficiency virus; Tat peptides; Rat (Starling, I. (830) 285)

6-Hydroxydopamine; 1-Methyl-4-phenylpyridinium; L-DOPA; Hypothalamic noradrenergic neuron; Nigro-striatal dopaminergic neuron; Vesicular monoamine transporter type 2 (Cleren, C. (830) 314)

Dexfenfluramine; Fluorine; Magnetic resonance spectroscopy; Obesity; Pharmacokinetics (Christensen, J.D. (834) 1)

Cerebellar granule neuron; Aluminum; Apoptosis; Neuroglial culture; Astroglial culture (Suárez-Fernández, M.B. (835) 125)

Methotrexate hexaglutamate; NAALADase; 2-PMPA; In vitro (Thomas, A.G. (843) 48)

β Amyloid; Vitamin E; Ginkgolide; Apoptosis; Cell death (Yao, Z.-X. (847) 203)

Long-term potentiation; Polychlorinated biphenyl; Synaptic plasticity; Hippocampus (Gilbert, M.E. (850) 87)

3-Nitropropionic acid; Succinate dehydrogenase; Neuron; Astrocyte; NMDA-receptor (Olsen, C. (850) 144)

Deltamethrin; Nitric oxide synthase; Poly(ADP-ribose) polymerase (Wu, A. (850) 249)

Prenatal; Cocaine; Habenula; Degeneration (Murphy, C.A. (851) 175)

Methamphetamine; Nitric oxide synthase (Deng, X. (851) 254)

Neurotoxin
3,4-Dihydroxyphenylglycolaldehyde; Locus ceruleus; Neuron death; Alzheimer's disease (Burke, W.J. (816) 633)

Parkinson's disease; Basal ganglia; Neurogenetics; Gender (Hamre, K. (828) 91)

Neurotransmitter
Brain-derived neurotrophic factor; Exocytosis; Synaptic vesicle; FM1-43; Synaptic plasticity (Bradley, J. (815) 140)

Rana pipiens; Retina; Amacrine cell; Immunocytochemistry; Dopamine; Tyrosine hydroxylase (Kicliter, E. (816) 149)

Apoptosis; Growth factor; Tissue culture; Striatum (Iacovitti, L. (816) 276)

AMPA; Vestibular end organ; Afferent; Immunocytochemistry; Rat (Matsubara, A. (819) 58)

Immunocytochemistry; Biogenic amine; Insect brain; Circadian pacemaker (Loesel, R. (842) 408)

Hypothermia; Meningitis; Glutamate; Aspartate; Heat shock protein (Irazuzta, J.E. (847) 143)

Presynaptic blocker; Intracerebral microdialysis; Ca^{2+}-dependent; High K^+ (Shi, Y.-L. (850) 173)

Neurotransmitter release
Temporal lobe epilepsy; Human brain synaptosomes; B-50; Protein phosphorylation; Calcium (Hoogland, G. (837) 55)

Neurotransmitter uptake
Radial glia; Chick retina; Cyclic AMP (Gadea, A. (838) 200)

Neurotrophic
Acetylcholine receptor; Brain extract; Down-regulation (Montgomery, J.M. (818) 346)

L-Deprenyl; Neurite outgrowth; Brain derived neurotrophic factor; Parkinson's disease (Kontkanen, O. (829) 190)

Neurotrophic factor
GDNF; Dopamine; Striatum; Substantia nigra; Methamphetamine; In vivo microdialysis (Cass, W.A. (827) 104)

Receptor; mRNA expression; Traumatic brain injury (Oyesiku, N.M. (833) 161)

NTN; Expression; Adrenal gland; Gut; Ovary (Xian, C.J. (835) 247)

Dopamine-releasing protein (DARP); Rat C6 glioma cell; ELISA; Immunocytochemistry (Smith, S. (843) 95)

Urinary bladder inflammation; Dorsal root ganglia; Spinal cord; Sacral parasympathetic nucleus; Lateral collateral pathway (Vizzard, M.A. (844) 174)

Glial cell line-derived neurotrophic factor; Parkinson's disease; Neuroprotection; Neural transplantation (Yurek, D.M. (845) 21)

Neurotrophin
Peptidergic neuron; SRIF; Neuropeptide Y; BDNF; gp120; Brain (Barnea, A. (815) 349)

Cerebellar culture; Purkinje cell; Synaptogenesis; Activity-dependent plasticity (Seil, F.J. (818) 561)

Ciliary neurotrophic factor; Nuclear translocation; Astrocyte; *Xenopus* oocyte (Bajetto, A. (818) 565)

Serotonin; Motoneuron; Regeneration; Axotomy; Receptor; Sciatic nerve; Peripheral nerve (Rende, M. (823) 234)

Apoptosis; Signal transduction; Neurite outgrowth; LY294002; Wortmannin (Virdee, K. (837) 127)

Neurotrophin-3
Axotomy; Peripheral nerve graft; Conditioning lesion; Brain-derived neurotrophic factor; Nerve growth factor (Oudega, M. (818) 431)

Brain-derived neurotrophic factor; Nerve growth factor; Neuropeptide Y; Epilepsy; Human (Takahashi, M. (818) 579)

Ischemia; MCAO; TUNEL; Caspase-3; HSP72 (Zhang, W.R. (842) 211)

Neurotrophins
N-Methyl-D-aspartate; Glutamate; Neurotoxicity; Apoptosis; Neuroprotection (Rocha, M. (827) 79)

Neurotrophin-withdrawal
Apoptosis; Auditory system; Calpain; Hypoxia; Noise trauma (Cheng, A.G. (850) 234)

Neutral proteinase
Calpain; Calpastatin; Calcium; Spinal cord injury (Ray, S.K. (816) 375)

Newborn
Cerebral circulation; Cyclic nucleotide; Nitric oxide (Armstead, W.M. (816) 158)

Brain; NMDA receptor; CPP; Free radical; Lipid peroxidation (Fritz, K.I. (816) 438)

Cerebral circulation; Cyclic nucleotide (Armstead, W.M. (825) 68)

Cerebral circulation; Cyclic nucleotide; Opioid; Nitric oxide (Armstead, W.M. (835) 315)

Cerebral circulation; Hyperoxia; Endothelin (Armstead, W.M. (842) 252)

Newborn piglet
Hypoxia–ischemia; Hypoglycemia; Fasting; Insulin; Cerebral metabolism (Chang, Y.S. (844) 135)

Newborn rat
Nerve injury; Infraorbital nerve; Thalamus; Sensory trigeminal nuclear complex; Apoptosis (Sugimoto, T. (824) 284)

NF1
Neurofibromatosis; Astrocyte; Gliosis; Learning disability; Ras; Mouse; Neurofibromin (Rizvi, T.A. (816) 111)

NF-IL6 binding site
Opioid receptor; Cytokine response element (Im, H.-J. (829) 174)

NF-kappa B
Ca(2 +)-calmodulin-dependent protein kinase; Nitric-oxide synthase; Signal transduction; Lipopolysaccharide; Phosphorylation; CREB (Mirzoeva, S. (844) 126)

NF-κB
α-Melanocyte-stimulating hormone; IκBα; Inflammation; Melanocortin receptor (Ichiyama, T. (836) 31)

NG108-15 cell
ω-Agatoxin IVA (ω-Aga-IVA); P/Q-type Ca^{2+} channel; α-Eudesmol; Synaptosome; Cerebellar Purkinje cell (Asakura, K. (823) 169)

NGF
CNTF; Induction; Cortical astrocyte; Interaction; $p75^{NTR}$; Rat (Semkova, I. (838) 184)

Transmitter release; Synaptic plasticity; BDNF (Numakawa, T. (842) 431)

NGF antibody
M1 receptor; Binding; Hippocampus; Juvenile rat; Development (Rosati, A.M. (815) 185)

Nick-end labeling
Apoptosis; Microglia; Müller cell; Photoreceptor cell; Lactate dehydrogenase; Necrosis; Retinal degeneration (Roque, R.S. (836) 110)

Nicotine
Cocaine; Dizocipline; Ethanol; Sensitization; Dopamine transporter (Itzhak, Y. (818) 204)

Acetylcholine; Nicotinic acetylcholine receptor; SH-EP1 cell; Tetracycline (Peng, J.-H. (825) 172)

Nicotinic acetylcholine receptor; Long-term potentiation; Hippocampus (Fujii, S. (846) 137)

Mouse; Intermittent administration; Abstinence; Withdrawal; Mecamylamine (Isola, R. (850) 189)

Adolescence; Gender-specific nicotine effect; Membrane protein; Nicotinic cholinergic receptor (Trauth, J.A. (851) 9)

Nicotine dependence
Antinociception; Reinforcement for smoking; Met-enkelphalin (Wewers, M.E. (822) 107)

Nicotinic acetylcholine receptor
Acetylcholine; Nicotine; SH-EP1 cell; Tetracycline (Peng, J.-H. (825) 172)

Nootropic; Nefiracetam; Synaptic transmission; Long-term potentiation; Hippocampus (Nishizaki, T. (826) 281)

Nicotine; Long-term potentiation; Hippocampus (Fujii, S. (846) 137)

Nicotinic cholinergic receptor
Adolescence; Gender-specific nicotine effect; Membrane protein; Nicotine (Trauth, J.A. (851) 9)

Nicotinic receptor
Ethanol; Calcium; Neuroprotection; Pheochromocytoma (PC12) cell (Li, Y. (816) 225)

α7 Nicotinic receptor
DMXB; Protein kinase C; Calcium; Tyrosine protein kinase (Li, Y. (830) 218)

Nigropallidal projection
Basal ganglia; Nigrostriatal pathway; Single cell labeling; Parkinson's disease; Huntington's disease (Gauthier, J. (834) 228)

Nigrostriatal
Parkinson's disease; Uptake; Nomifensine (Dishon, K.A. (842) 399)

Nigro-striatal dopaminergic neuron
6-Hydroxydopamine; 1-Methyl-4-phenylpyridinium; L-DOPA; Neurotoxicity; Hypothalamic noradrenergic neuron; Vesicular monoamine transporter type 2 (Cleren, C. (830) 314)

Nigrostriatal pathway
Basal ganglia; Nigropallidal projection; Single cell labeling; Parkinson's disease; Huntington's disease (Gauthier, J. (834) 228)

NIPS
Alkylation; Autoradiography; D_3 and D_2 dopamine receptor; EEDQ (Zhang, K. (847) 32)

Nitric oxide
Reactive oxygen species; Noise-induced hearing loss; Deferoxamine mesylate; Mannitol (Yamasoba, T. (815) 317)

Cyclosporin A; FK506; iNOS; C6; Glioma; Rat (Trajković, V. (816) 92)

Newborn; Cerebral circulation; Cyclic nucleotide (Armstead, W.M. (816) 158)

Pedunculopontine tegmentum; Cholinergic cell; Sleep; Wakefulness; Rat (Hars, B. (816) 209)

Nitric oxide synthase; Amyotrophic lateral sclerosis; Superoxide dismutase; cGMP; Cerebral cortex; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

Plasticity; Deafferentation; Somatosensory system; Cerebral glucose utilization (Won Sohn, N. (816) 396)

Angiotensin II; Choroid plexus; Sympathetic nervous system; Rat (Chodobski, A. (816) 518)

Neurotoxicity; Quinolinic acid; Enkephalinergic (Kalisch, B.E. (817) 151)

Oxidative stress; Antibodies; Cortex; Striatum; Thalamus (Maybodi, L. (817) 199)

Social stress; Corticotropin-releasing hormone; Vasopressin; ACTH/Corticosterone (Bugajski, J. (817) 220)

Glutamate; NMDA; Nociception; Spinal cord; Voltammetry (Rivot, J.-P. (821) 101)

Paraventricular nucleus; NO synthase; Corticotropin-releasing factor (Harada, S. (821) 322)

Cerebral arteriole; YC-1; Adenosine; Acetylcholine; ODQ; Nitroprusside (Faraci, F.M. (821) 368)

MPTP; 3-Nitrotyrosine; Parkinson's disease; Peroxynitrite (Ferrante, R.J. (823) 177)

Adenosine 5′-triphosphate; Adenosine; Ischemia (Jurányi, Z. (823) 183)

Apoptosis; Reactive oxygen species; Caspase; Glutamate; PARP (Ishikawa, Y. (824) 71)

Marine bird; Osmoregulation; NADPH-diaphorase; Hypothalamus; Central control of salt gland function; Avian antidiuretic hormone; Cerebrospinal fluid contacting neuron (Hübschle, T. (825) 22)

Petrosal ganglion neurons; Sodium nitroprusside; L-NAME; Acetylcholine; Carotid body chemoreceptors (Alcayaga, J. (825) 194)

Acute stressor; Hypothalamus; Neuroendocrine; Histochemistry; Rat (Sánchez, F. (828) 159)

iNOS; Soluble guanylyl cyclase; Cochlea; Inner ear dysfunction (Hess, A. (830) 113)

Guinea pig; Distal colon; Submucous plexus; 5-Hydroxytryptamine; Immunocytochemistry (Kadowaki, M. (831) 288)

Neurosteroid; $GABA_A$ receptor (Mehta, A.K. (832) 164)

Ventrobasal thalamus; Lateral geniculate nucleus; Sensory system; Guanylate cyclase; Cyclic GMP (Shaw, P.J. (833) 272)

Newborn; Cerebral circulation; Cyclic nucleotide; Opioid (Armstead, W.M. (835) 315)

Ischemic tolerance; Mitochondria; Neuropathology; Hippocampus (Centeno, J.M. (836) 62)

Convulsion; GABA; GABA-T; GAD; Glutamic acid (Jayakumar, A.R. (837) 229)

Olfaction; Potassium channel; *Caudiverbera*; *Xenopus* (Schmachtenberg, O. (837) 301)

Glutamate; 7-Nitroindazole; Kainic acid; Microdialysis; Hippocampus (Alabadí, J.A. (839) 305)

Shear stress; Cerebral blood flow (Mashour, G.A. (842) 233)

Hypertension; L-NNA; Vasopressin (Łoń, S. (842) 384)

cGMP; cAMP; Hair cell; Vestibular; Cuttlefish (Tu, Y. (845) 35)

Superoxide; Sumatriptan; Migraine (Read, S.J. (847) 1)

Nitric oxide synthase; Arginiosuccinate synthetase; Citrulline–NO cycle; Glioma cells (Zhang, W.Y. (849) 78)

Superoxide; Hippocampus; Hypothalamus; Thalamus; Suprachiasmatic nucleus (Oury, T.D. (850) 96)

Subarachnoid hemorrhage; Cerebral vasospasm; Amyloid precursor protein; Neurological deficit; Animal model (Ryba, M.S. (850) 225)

NPY; Neuropeptide Y-(13-36); [Leu^{31},Pro^{34}]neuropeptide Y; PYY-(3-36); N^G-monomethyl-L-arginine (L-NMMA) (Bitran, M. (851) 87)

Nitric oxide-cGMP system
Rat; Locus coeruleus; Alpha-2 adrenergic; Dexmedetomidine; Atipamezole; Sedation (Vulliemoz, Y. (849) 169)

Nitric oxide (NO)
Blood pressure; Heart rate; Anteroventral third ventricle (AV3V) (Lewis, S.J. (830) 191)

Linsidomine; SNAP; SNOG; Sodium nitroprusside; L-NAME; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

Nitric oxide (NO) synthase
Corpus cavernosum; Nitroxidergic nerve; Denervation; Histochemistry (Ayajiki, K. (825) 14)

Nitric oxide synthase
Vestibular compensation; *N*ω-nitro-L-arginine methyl ester; Vestibulocerebellum; Fos; Immunohistochemistry (Kitahara, T. (815) 405)

Nitric oxide; Amyotrophic lateral sclerosis; Superoxide dismutase; cGMP; Cerebral cortex; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

Methylene blue; Microdialysis; Hippocampus; Rat (Volke, V. (826) 303)

Calcitonin gene related peptide; Substance P; Inferior mesenteric ganglion; Inferior mesenteric artery; Inferior mesenteric vein (Zheng, Z.L. (827) 113)

Fos; Lactation; Milk ejection; Magnocellular nuclei; Oxytocin (Okere, C.O. (828) 104)

Postmortem human brain; [^{3}H]L-Citrulline formation assay; Western blot analysis; Arginine; Citrulline (Blum-Degen, D. (834) 128)

Male rat; Castration; Dopamine; Tyrosine hydroxylase; Medial preoptic area; NADPH-d; Paraventricular nucleus; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

Antichymotrypsin; Interleukin-1; S100; Butyrylcholinesterase; Alzheimer's disease (Hu, J. (842) 46)

Fasting; Leptin; Thyrotropin-releasing hormone; Corticotropin-releasing hormone; In situ hybridization histochemistry (Isse, T. (846) 229)

Nitric oxide; Arginiosuccinate synthetase; Citrulline–NO cycle; Glioma cells (Zhang, W.Y. (849) 78)

Deltamethrin; Neurotoxicity; Poly(ADP-ribose) polymerase (Wu, A. (850) 249)

Methamphetamine; Neurotoxicity (Deng, X. (851) 254)

Nitric oxide synthase-2
Astrocyte; Chemokine; Gender; Gene disruption (Loihl, A.K. (830) 155)

Nitric-oxide synthase
Ca(2 +)-calmodulin-dependent protein kinase; Signal transduction; Lipopolysaccharide; Phosphorylation; NF-kappa B; CREB (Mirzoeva, S. (844) 126)

Nitrile neurotoxicity
CNS gliosis; Glial fibrillary acidic protein; Iminodipropionitrile neurotoxicity; Retinal degeneration and gliosis; Sensory toxicity (Seoane, A. (833) 258)

7-Nitroindazole
Nitric oxide (NO); Linsidomine; SNAP; SNOG; Sodium nitroprusside; L-NAME; Push–pull superfusion (Kaehler, S.T. (835) 346)

Nitric oxide; Glutamate; Kainic acid; Microdialysis; Hippocampus (Alabadí, J.A. (839) 305)

3-Nitropropionic acid
Black-Gold; Myelin; Demyelination; Kainic acid; Isoniazid; Domoic acid (Schmued, L. (837) 289)

Neurotoxicity; Succinate dehydrogenase; Neuron; Astrocyte; NMDA-receptor (Olsen, C. (850) 144)

Nitroprusside
Cerebral arteriole; Nitric oxide; YC-1; Adenosine; Acetylcholine; ODQ (Faraci, F.M. (821) 368)

Nitrotyrosine
Nitric oxide; Nitric oxide synthase; Amyotrophic lateral sclerosis; Superoxide dismutase; cGMP; Cerebral cortex; Peroxynitrite (Aguila, M.C. (816) 241)

Peroxynitrite; Brain slice; Hypoxia; NMDA (Ochiai-Kanai, R. (847) 59)

3-Nitrotyrosine
MPTP; Parkinson's disease; Nitric oxide; Peroxynitrite (Ferrante, R.J. (823) 177)

Methamphetamine; Peroxynitrite; Dopamine; Striatum; Oxidative stress (Imam, S.Z. (837) 15)

Nitroxidergic nerve
Corpus cavernosum; Denervation; Histochemistry; Nitric oxide (NO) synthase (Ayajiki, K. (825) 14)

NK cell
MADB106; IL-1; Tumor; Catecholamine (Hodgson, D.M. (816) 200)

NK1 receptor
Substance P; Nucleus of the solitary tract; Respiration; Aging; Autoradiography (Mazzone, S.B. (826) 139)

NK_1 receptor
Amygdala; Substance P; Receptor internalisation; Stress (Smith, D.W. (848) 90)

NMB neuroblastoma cell line
Kappa-opioid receptor; Opiate; Voltage-dependent calcium channel; Transmitter release (Keren, O. (843) 193)

NMDA
Ischemia; Anoxia; Glutamate; AMPA; Neuroprotection (Arias, R.L. (816) 299)

Morris water maze; Inhibitory avoidance; GABAergic system (Spanis, C.W. (816) 329)

Glutamate; Nitric oxide; Nociception; Spinal cord; Voltammetry (Rivot, J.-P. (821) 101)

Glutamate; AMPA; Vesicular transmitter release (Gao, F. (821) 487)

HB-EGF; Hypoxic/ischemic; Neonate; Neuroprotection (Tanaka, N. (827) 130)

Cerebral ischemia; Seizure; GABA; Lidocaine; Pentylenetetrazol (Kim, D.-C. (831) 131)

GABA; Dopamine; Burst; Isoguvacine; Basal ganglia (Paladini, C.A. (832) 145)

Schizophrenia; Ketamine; Amphetamine; MK-801; Animal model; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Glutamate; Pregnancy; Rat; Seizure; Epilepsy (Standley, C.A. (844) 10)

ACh release; Dopamine; GABA release; Glutamate; Striatum; Parkinson's disease (Hanania, T. (844) 106)

Serotonin; Excitatory amino acid; Receptor; Circadian rhythm (Kennaway, D.J. (845) 102)

Glutamate; MK-801; Butorphanol; Withdrawal; Autoradiography (Jang, C.-G. (845) 236)

Nitrotyrosine; Peroxynitrite; Brain slice; Hypoxia (Ochiai-Kanai, R. (847) 59)

NMDA antagonist
Parkinson's disease; 6-Hydroxydopamine lesion; Basal ganglia; KN93; Motor response alterations (Oh, J.D. (821) 433)

Grooming behavior; 5,7-Dihydroxytryptamine; Hippocampus; Scopolamine (Robertson, B.J. (838) 234)

NMDA antagonist: MK-801
Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury (Munglani, R. (822) 210)

Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury (Hudspith, M.J. (822) 220)

NMDA channel
[^{3}H]MK-801 binding; Ferrous ion; Spermidine; Development (Ogita, K. (818) 548)

NMDA glutamate receptor
D2 dopamine receptor; Priming; c-*Fos*; Apomorphine (Pollack, A.E. (827) 160)

NMDA pain facilitatory processes
Morphine; Fentanyl; Analgesia; Naloxone-precipitated hyperalgesia; MK-801 (Célèrier, E. (847) 18)

NMDA receptor
Excitotoxicity; Ototoxicity; Aminoglycoside; Neomycin; Polyamine (Segal, J.A. (815) 270)

Newborn; Brain; CPP; Free radical; Lipid peroxidation (Fritz, K.I. (816) 438)

Fos; Striatum; D2 dopamine receptor (Pollack, A.E. (818) 543)

Chronic ethanol; Withdrawal; Alternative splicing; Cerebral cortex; Rat (Hardy, P.A. (819) 33)

β-Endorphin analgesia; AP7; MK801; Scopolamine; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

Spontaneous activity; Thalamocortical system; Organotypic coculture; Low magnesium (Hentschke, H. (830) 123)

Neurosteroid; Pregnenolone sulfate; $GABA_A$ receptor; Seizure (Kokate, T.G. (831) 119)

Non-NMDA receptor; Subcutaneous bee venom injection; Wide-dynamic-range neuron; Dorsal horn; Persistent nociception; Tissue injury (Chen, J. (844) 98)

Spermine; Chick retina (Calderón, F. (844) 150)

Intracranial self-stimulation (ICSS); Memantine; MK-801 (dizocilpine); Reward; Lateral hypothalamus; Median forebrain bundle; Curve-shift paradigm (Tzschentke, T.M. (845) 192)

Spinal cord; AMPA receptor; Glutamate receptor; Type 2 diabetes mellitus; Obese–diabetic mouse (Li, N. (849) 34)

Excitotoxicity; Fura-2; Magfura-2; Calcium; mRNA (Cheng, C. (849) 97)

Status epilepticus; Calcium; Calcium channel; Epilepsy; Intracellular calcium (Pal, S. (851) 20)

NMDA-receptor
3-Nitropropionic acid; Neurotoxicity; Succinate dehydrogenase; Neuron; Astrocyte (Olsen, C. (850) 144)

NMDA receptor antagonist
Benzodiazepine; Tolerance; Anxiety; Social interaction (Fernandes, C. (815) 431)

Circadian rhythm; Suprachiasmatic nucleus; Substance P; Glutamate release; Firing rhythm (Hamada, T. (836) 190)

NMDA receptors
rTMS; Receptor autoradiography; Serotonin uptake sites; $5\text{-}HT_{1A}$ receptors; Hippocampus; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

Striatum; Lactic acid; Dopamine; Glutamate; Hydroxyl radicals (Remblier, C. (837) 22)

NMDA R1 receptor
Chinchilla laniger; Vestibular periphery (Ishiyama, G. (851) 270)

***N*-methyl-D-aspartate**
Basolateral amygdala; Calcium channel; Ethanol (Calton, J.L. (816) 142)

Ischemia; Glutamate; Neuronal death; Ganglion neurons (Yoon, Y.H. (823) 33)

Respiratory control; Non-NMDA; Rhythm and pattern generator; Cat (Anderson, M.K. (829) 69)

***N*-methyl-D-aspartate receptor**
Serotonin $5\text{-}HT_{1A}$ receptor; 8-Hydroxy-2-(*N*,*N*-dipropylamino)tetralin (8-OH-DPAT); Long-term potentiation; Visual cortex (Edagawa, Y. (827) 225)

Blood pressure; Heart rate; Periventricular anteroventral third ventricle (Whalen, E.J. (836) 210)

N^G-monomethyl-L-arginine (L-NMMA)
NPY; Neuropeptide Y-(13-36); [Leu^{31},Pro^{34}]neuropeptide Y; PYY-(3-36); Nitric oxide (Bitran, M. (851) 87)

L-NNA
Hypertension; Nitric oxide; Vasopressin (Łoń, S. (842) 384)

NO
MHC-II; β-amyloid; Astrocyte; Microglia; Alzheimer's disease (Pazmany, T. (835) 213)

Nociceptin
Orphanin FQ; Medial vestibular nucleus; Vestibulo-ocular reflex (Sulaiman, M.R. (828) 74)

Orphanin FQ; Opioid; Morphine; Reward; Preference (Murphy, N.P. (832) 168)

Receptor; Autoradiography; Rat; Spinal cord (Gouardères, C. (838) 85)

Hyperalgesia; Tachykinin NK_1 receptor antagonist; Spinal cord; Intrathecal injection (Sakurada, C. (841) 85)

Dorsal raphe neuron; Intracellular calcium; Serotonin; μ-Opioid agonist; Neuropeptide FF (Roumy, M. (845) 208)

Orphanin FQ; Microdialysis; Striatum; Acetylcholine; [$Phe^1\Psi(CH_2\text{–}NH)Gly^2$] nociceptin-(1-13)–$NH_2$ (Itoh, K. (845) 242)

Nociceptin/orphanin FQ
Enzyme biotransformation; Cultured cells; Morphine treatment; Mass spectrometry (Vlaskovska, M. (818) 212)

Nociceptin receptor
Knockout mouse; Learning and memory; κ3-Opioid receptor; NalBzoH (Nabeshima, T. (848) 167)

Nociception
Withdrawal reflex; Pain; Noxious stimulation; C-fibre response; Single motor unit (Mazario, J. (816) 512)

Neuropeptide FF; Rat spinal cord; Monoarthritis; Descending inhibitory control; Chronic pain (Lombard, M.-C. (816) 598)

Primary afferents; Sensory neurons; Immunohistochemistry (Carlton, S.M. (820) 63)

Glutamate; NMDA; Nitric oxide; Spinal cord; Voltammetry (Rivot, J.-P. (821) 101)

Muscarinic acetylcholine receptor; Dorsal root ganglia; Sensory neuron (Tata, A.M. (824) 63)

A fiber; C fiber; Topographical mapping; Somatosensory function; Electrical stimulation (Shaw, F.-Z. (824) 183)

Hippocampal formation; C-*fos*; Rat (Funahashi, M. (827) 215)

Nerve injury; Pain; Spinal cord (Xu, I.S. (833) 251)

Hyperalgesia; Nerve injury; Rat; Sciatic nerve ligation (Novak, J.C. (833) 308)

Proto-oncogene; Interneuron; Urinary bladder (Birder, L.A. (834) 55)

c-Fos; NADPH-diaphorase; Colocalization; Rat (Rodella, L. (834) 173)

Receptor mismatch; Spinal cord; Tachykinin (McLeod, A.L. (836) 1)

Resiniferatoxin; Capsaicin; Vanilloid; VR1 (Szabo, T. (840) 92)

Pain; Withdrawal reflex; Noxious stimulation; Wind-up (Herrero, J.F. (840) 106)

Calbindin D28k; Substantia gelatinosa; Spinal trigeminal nucleus; Intracellular staining; Biocytin; Immunohistochemistry; Rat (Li, Y.-Q. (840) 179)

Hot-plate test; Polydipsic inbred mouse; Opioid (Kamikawa, H. (846) 171)

Visceroception; Lateral thalamus; Viscerovisceral convergence; Viscerosomatic convergence (Horn, A.C. (851) 164)

Nociceptive reflex
Temporomandibular joint; Mustard oil; Trigeminal subnucleus caudalis; Ibotenic acid; Jaw muscle (Tsai, C.-M. (826) 293)

Nociceptive response latency
Periaqueductal grey; Galanin; Opioid peptide; Naloxone (Wang, D. (834) 152)

Nocturnal
Diurnal; Ventrolateral preoptic area; Fos; Circadian rhythm; Suprachiasmatic nucleus (Novak, C.M. (818) 375)

Noda epileptic rat
Neuropeptide Y; Corticotropin-releasing factor; Radioimmunoassay; In situ hybridization (Jinde, S. (833) 286)

Node of Ranvier of myelinated nerve fibre
Caribbean ciguatoxin; D-Mannitol; Action potential; Axonal volume; Confocal laser scanning microscopy (Mattei, C. (847) 50)

Nodose ganglion
α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Nucleus tractus solitarius; Hypertension; Autoradiography; (*S*)-[^{3}H]-5-Fluorowillardiine (Ashworth-Preece, M.A. (834) 186)

Calbindin D-28k; Calcitonin-gene related peptide; Jugular ganglion; Parvalbumin; Petrosal ganglion; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

Noise analysis
Sensory; Receptor; Arthropod (Höger, U. (826) 230)

Noise-induced hearing loss
Reactive oxygen species; Deferoxamine mesylate; Mannitol; Nitric oxide (Yamasoba, T. (815) 317)

Noise trauma
Apoptosis; Auditory system; Calpain; Neurotrophin-withdrawal; Hypoxia (Cheng, A.G. (850) 234)

Auditory; Cochlea; Synaptophysin immunoreactivity (Canlon, B. (850) 253)

Nomifensine
Nigrostriatal; Parkinson's disease; Uptake (Disshon, K.A. (842) 399)

Non-competitive inhibition
Glutamate transporter; Glia; Energy metabolism; Glucose utilization (Debernardi, R. (850) 39)

Non-dominant hand
SEP; Writing; Skill; Gating (Hoshiyama, M. (833) 10)

Non-genomic
Progesterone; Mouse; Lordosis; PRKO mouse; Neurosteroids (Frye, C.A. (815) 259)

Non-NMDA
Respiratory control; *N*-methyl-D-aspartate; Rhythm and pattern generator; Cat (Anderson, M.K. (829) 69)

Non-NMDA receptor
NMDA receptor; Subcutaneous bee venom injection; Wide-dynamic-range neuron; Dorsal horn; Persistent nociception; Tissue injury (Chen, J. (844) 98)

Non-photic
Circadian rhythm; IGL; Suprachiasmatic nucleus; Neuropeptide Y; Serotonin (Schuhler, S. (849) 16)

Non-photic entrainment
Arousal; Circadian clock; Intergeniculate leaflet; Reticular formation (Lewandowski, M.H. (827) 139)

Non-REM
Diagonal band of Broca; Basal forebrain; Sleep; Thermoregulation; Thermosensitivity; GABA (Hays, T.C. (845) 215)

Non-shivering thermogenesis
Disinhibition; Lower midbrain (Shibata, M. (833) 242)

Non-spatial learning
Corpus callosum; Knockout; ES cell; 129 mouse; C57 mouse; Spatial learning (Balogh, S.A. (836) 38)

Nonsteroidal anti-inflammatory drug (NSAID)
Rat; Brain inflammation; Microglia; Alzheimer's disease; Lipopolysaccharide (Hauss-Wegrzyniak, B. (815) 36)

Nootropic
Nefiracetam; Synaptic transmission; Nicotinic acetylcholine receptor; Long-term potentiation; Hippocampus (Nishizaki, T. (826) 281)

Nootropic drug
Acetylcholine receptor; Nefiracetam; PC12 cell; Protein kinase; G protein (Oyaizu, M. (822) 72)

Noradrenaline
Cardiovascular regulation; Limbic system; Alpha-adrenergic receptor; Beta-adrenergic receptor (Roder, S. (818) 531)

Locus coeruleus; Inflammation (Tsuruoka, M. (821) 236)

Locus coeruleus; Prefrontal cortex; GABA; Glutamate; Microdialysis (Kawahara, Y. (823) 42)

Histamine; Thioperamide; Triprolidine; Rauwolscine; Food intake; Rat (Kurose, Y. (828) 115)

Astrocyte; α_1-Receptor; Phospholipase D; Cell proliferation (Kötter, K. (830) 138)

Serotonin; Hippocampus; Unilateral vestibular deafferentation (Zheng, Y. (836) 199)

Ketamine; Physostigmine; Medial prefrontal cortex; Rat (Kubota, T. (840) 175)

Noradrenaline (NA) turnover
Calcium; Morphine withdrawal; Thapsigargin; Frontal cortex; Diabetes (Ohsawa, M. (815) 424)

Noradrenergic
Serotonergic; Olivocochlear; Efferent; Auditory (Woods, C.I. (836) 9)

Noradrenergic neuron
Sympathetic discharge; A5; Pons; Glutamate; Angiotensin II (Maiorov, D.N. (815) 227)

Monoamine oxidase; Intermediolateral nucleus; Sympathetic preganglionic neuron; Serotonergic neuron; Parkinson's disease (Yamada, H. (833) 302)

Tyrosine hydroxylase; Dopaminergic neuron; Ventral tegmental area; Arcuate nucleus; Olfactory bulb; Locus coeruleus (Hida, T. (842) 491)

Nor-binaltorphimine
c-Fos; Extended amygdala; Opioid; CTAP (Carr, K.D. (822) 34)

Norepinephrine
Corticotropin-releasing factor; Locus coeruleus; Glucocorticoid receptor; Barrington's nucleus; Central nucleus of the amygdala; Bed nucleus of the stria terminalis (Lechner, S.M. (816) 17)

Lipopolysaccharide; Dopamine; Serotonin; Corticosterone; ACTH; Anxiety; Exploration (Lacosta, S. (818) 291)

Antidepressant; Catecholamines; Dopamine; Turnover (Zangen, A. (824) 243)

Immobilization; Microdialysis; Paraventricular nucleus; Yohimbine (Tjurmina, O.A. (826) 243)

Diabetes mellitus; Spinal cord; 3-Methoxy-4-hydroxyphenylglycol; Alpha adrenoceptor (Bitar, M.S. (830) 1)

Anxiety disorders; Chronic stress; Cold stress; Foot shock; In vivo microdialysis (Jedema, H.P. (830) 211)

Stress; Dopamine; Medial prefrontal cortex; Striatum; Nucleus accumbens; Corticosterone (Lindley, S.E. (832) 152)

Acetylcholine; Calcium; CREB; Vasoactive intestinal peptide; Ontogeny (Schomerus, C. (833) 39)

Stress; Predator; Corticosterone; Dopamine; Serotonin; Limbic excitability; Kindling (McIntyre, D.C. (840) 65)

Pain; TNF; α_2-Adrenergic receptor; Microinfusion; Hippocampus (Ignatowski, T.A. (841) 70)

Monoamine transporter; Locus coeruleus; Epilepsy; Rat (Bengzon, J. (842) 239)

Rat; Brain; Ischemia; Microdialysis; Histology (Nellgård, B.M.G. (847) 262)

Hypothalamus; Obesity; Neuropeptide Y; Arcuate nucleus; Paraventricular nucleus; Dopamine; Transporter (Baskin, D.G. (848) 114)

Norepinephrine transporter
Aging; Tyrosine hydroxylase; Locus coeruleus; Brown–Norway rat (Shores, M.M. (826) 143)

Norepinephrine uptake
Antidepressant; Depression; Monoamine transporter; Serotonin uptake; Glia; Astrocyte (Neary, J.T. (816) 358)

NOS1
Spinal cord; Sacral; Motoneuron; Cytotoxicity (Pullen, A.H. (836) 173)

iNOS
Cyclosporin A; FK506; Nitric oxide; C6; Glioma; Rat (Trajković, V. (816) 92)

Nitric oxide; Soluble guanylyl cyclase; Cochlea; Inner ear dysfunction (Hess, A. (830) 113)

NO synthase
Paraventricular nucleus; Nitric oxide; Corticotropin-releasing factor (Harada, S. (821) 322)

Novelty
Microdialysis; Formalin test; Behavior (Ceccarelli, I. (815) 169)

Noxious stimulation
Nociception; Withdrawal reflex; Pain; C-fibre response; Single motor unit (Mazario, J. (816) 512)

Pain; Nociception; Withdrawal reflex; Wind-up (Herrero, J.F. (840) 106)

Noxiustoxin
K_{Ca} channel; Rat cerebellum; Charybdotoxin; *Androctonus australis* Hector; Scorpion venom (Ottolia, M. (815) 410)

NPY
Intergeniculate leaflet; Suprachiasmatic nucleus; Fos protein; Photoperiod; Syrian hamster (Jacob, N. (828) 83)

Neuropeptide Y-(13-36); [Leu^{31},Pro^{34}]neuropeptide Y; PYY-(3-36); N^G-monomethyl-L-arginine (L-NMMA); Nitric oxide (Bitran, M. (851) 87)

NPY-deficient mice
Neuropeptide Y (NPY); Agouti-related protein (AgRP); Melanocortin-4 receptor (MC4R); MC4R-deficient mice; Hypothalamus; Feeding behavior (Marsh, D.J. (848) 66)

NPY mRNA
Cardiac ganglia; Parasympathetic neuron; Immunocytochemistry; Reverse transcription polymerase chain reaction; Neuropeptide Y; Microtubule-associated protein-2; Colchicine (Lynch, S.W. (827) 70)

NPY Y1-receptor
Brain lesion; Nerve injury; Neuropeptide Y (NPY); Tracing (Pesini, P. (828) 41)

NR2B
Immunocytochemistry; Electron microscopy; Cerebral cortex; Hippocampus; Rat (Charton, J.P. (816) 609)

N-terminus deletion
4-Aminopyridine; Kv1.4 potassium channel; Fast inactivation gate; L4 heptad leucine; Mutagenesis (Judge, S.I.V. (831) 43)

NTN
Neurotrophic factor; Expression; Adrenal gland; Gut; Ovary (Xian, C.J. (835) 247)

Nuclear enzyme
Peptide; Intracellular metabolism; Neuropeptide; Endopeptidase; Oligopeptidase (Massarelli, E.E. (851) 261)

Nuclear factor-κB
PC12 cell; Trophic factor withdrawal; Ceramide; Free radical (Lambeng, N. (821) 60)

Nuclear translocation
Ciliary neurotrophic factor; Neurotrophin; Astrocyte; *Xenopus* oocyte (Bajetto, A. (818) 565)

Nucleus
Chicken; Thyrotropin-releasing hormone; Brain; Pituitary; Ontogeny (Geris, K.L. (818) 260)

Nucleus accumben
Turning behavior; Ethanol consumption; Medial prefrontal cortex; Dopamine; Brain asymmetry (Nielsen, D.M. (823) 80)

Nucleus accumbens
Addiction; Alcohol; Self-administration; Striatum; Basal ganglia; Rat; In vivo electrophysiology; Ensemble (Janak, P.H. (817) 172)

Glutamate reuptake blocker; L-PDC; Excitatory amino acid; Locomotor activity (Kim, J.-H. (819) 165)

Morphine; Self-administration; Proenkephalin; Striatum; Lewis; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Cocaine; Self-administration; Addiction; Electrophysiology; Rat (Peoples, L.L. (822) 231)

Medial prefrontal cortex; Brain asymmetry; Dopamine; Locomotor activity behavior; Ethanol (Nielsen, D.M. (823) 207)

Dopamine; 6-OHDA lesion; Ventral tegmental area; ACTH-peptide; Supersensitivity (Vos, P.E. (831) 237)

Stress; Dopamine; Norepinephrine; Medial prefrontal cortex; Striatum; Corticosterone (Lindley, S.E. (832) 152)

Sensitization; Cocaine; Medial prefrontal cortex; 6-Hydroxydopamine; Microdialysis; Dopamine (Beyer, C.E. (833) 133)

Waglerin-1; GABA (γ-aminobutyric acid); Whole-cell current; Patch-clamp; Protein kinase A (Ye, J.-H. (837) 29)

Ventral tegmental area; Fluoro-Gold; Calbindin-D 28kD; Calretinin; Tyrosine hydroxylase (Tan, Y. (844) 67)

Ibogaine; Cocaine; Dynorphin; Neurotensin; Striatum (Alburges, M.E. (847) 139)

Melatonin; Acetylcholine; Motor activity (Paredes, D. (850) 14)

Nucleus accumbens and striatum
Dopamine release; Ipsapirone; *S*(−)-pindolol; 5-HT$_{1A}$ receptor; In vivo microdialysis; Rat (Ichikawa, J. (842) 445)

Nucleus accumbens shell
Lateral hypothalamus; Bicuculline; Feeding behavior (Stratford, T.R. (825) 199)

Nucleus ambiguus
Kölliker–Fuse nucleus; Parabrachial nucleus; Biotinylated dextran amine; Cholera toxin; Swallowing (Hayakawa, T. (816) 364)

Tachykinin NK$_1$ receptor antagonist; GR205171; Substance P; Vomiting; Retching; Salivation; Vagus nerve (Fukuda, H. (818) 439)

Nucleus amygdaloideus centralis
Corticotropin releasing factor; Substance P; Pressor response; Nucleus ventromedialis; Emotion; Stress (Wu, J.-S. (842) 392)

Nucleus basalis magnocellularis
Acoustic startle response; Fear-potentiated startle; Latent inhibition; Prepulse inhibition; Schizophrenia (Schauz, C. (815) 98)

Cholinergic neuron; Positron emission tomography; Cerebral metabolic rate of glucose (Katsumi, Y. (837) 75)

Nucleus gigantocellularis pars α
Cobalt chloride; Local anesthetic; Tetracaine; Nucleus raphe magnus; Dorsolateral pontine tegmentum (Nuseir, K. (822) 1)

Nucleus of the solitary tract
A1 and A2 noradrenergic neurons; Reticular formation; Prolactin; Prolactin-releasing peptide; Tyrosine hydroxylase (Chen, C.-T. (822) 276)

Substance P; Respiration; Aging; NK1 receptor; Autoradiography (Mazzone, S.B. (826) 139)

Development; Piglet; Hypercapnia; c-*fos*; Area postrema (Sica, A.L. (837) 106)

Metabotropic glutamate receptor; Microinjection; Renal sympathetic nerve activity; Sympathetic nervous system (Matsumura, K. (842) 461)

Nucleus raphe magnus
Cobalt chloride; Local anesthetic; Tetracaine; Nucleus gigantocellularis pars α; Dorsolateral pontine tegmentum (Nuseir, K. (822) 1)

Antinociception; Periaqueductal gray; Nucleus reticularis paragigantocellularis; Dorsolateral funiculus; Carbachol (Guimarães, A.P.C. (827) 152)

Lidocaine; 8-OH-DPAT; Serotonin; O_2 consumption; EMG (Berner, N.J. (831) 155)

Nucleus reticularis paragigantocellularis
Antinociception; Periaqueductal gray; Nucleus raphe magnus; Dorsolateral funiculus; Carbachol (Guimarães, A.P.C. (827) 152)

Nucleus submedius
Periaqueductal gray; Visceral nociception; Spinal dorsal horn; Colorectal distension; Rat (Okada, K. (834) 112)

Nucleus tractus solitarii
Heme oxygenase; Glutamate; Heme oxygenase inhibitor; Blood pressure; Carbon monoxide (Silva, C.C.S. (824) 147)

Nucleus tractus solitarius
Glossopharyngeal nerve; Spinal nucleus of the trigeminal nerve; Chemoreceptor; Baroreceptor; Respiration; Arousal (Blessing, W.W. (816) 405)

Double-labeling; Fluorescent microsphere; Projection neuron; Taste (Gill, C.F. (821) 251)

α-Amino-3-hydroxy-5-methylisoxazole-4-propionic acid; Nodose ganglion; Hypertension; Autoradiography; (*S*)-[^{3}H]-5-Fluorowillardiine (Ashworth-Preece, M.A. (834) 186)

c-Fos; Learning; Lithium chloride; Aversion conditioning; Amygdala (Cubero, I. (839) 323)

Nucleus ventralis posteromedialis
Vagus nerve; Thalamus; Antinociception; Pain (Nishikawa, Y. (833) 108)

Nucleus ventromedialis
Corticotropin releasing factor; Substance P; Pressor response; Nucleus amygdaloideus centralis; Emotion; Stress (Wu, J.-S. (842) 392)

Null mutant
Oral self-administration; Endogenous opioid; β-Endorphin; C57BL/6 mouse (Grisel, J.E. (835) 62)

Null mutant mice
CRF receptor type 1; Anxiety; Memory (Contarino, A. (835) 1)

***N*ω-nitro-L-arginine methyl ester**
Vestibular compensation; Nitric oxide synthase; Vestibulocerebellum; Fos; Immunohistochemistry (Kitahara, T. (815) 405)

Nurr1
Tyrosine hydroxylase; Brain; Dopamine; Distribution (Bäckman, C. (851) 125)

Nutrition
Development; Glucocorticoid receptor; Mineralocorticoid receptor; Limbic system; Hypothalamo-pituitary-adrenal (HPA) axis; Fetus; Guinea pig (Lingas, R. (846) 236)

O

OBCAM
Opioid-binding cell adhesion molecule; Adult rat; Distribution; Localization; Immunostaining (Hachisuka, A. (842) 482)

Obese–diabetic mouse
Spinal cord; NMDA receptor; AMPA receptor; Glutamate receptor; Type 2 diabetes mellitus (Li, N. (849) 34)

Obesity
Dexfenfluramine; Fluorine; Magnetic resonance spectroscopy; Neurotoxicity; Pharmacokinetics (Christensen, J.D. (834) 1)

Rhythm; Entrainment; Arcuate nucleus; Neuropeptide Y; Food deprivation; Masking (Mistlberger, R.E. (842) 73)

Hypothalamus; Saturated fat; $n-3$ Polyunsaturated fat; $n-6$ Polyunsaturated fat (Wang, H. (843) 184)

Background metabolism; Respiratory quotient; Body weight; Lipolysis (Ruffin, M.-P. (846) 23)

Hypothalamus; Neuropeptide Y; Arcuate nucleus; Paraventricular nucleus; Dopamine; Norepinephrine; Transporter (Baskin, D.G. (848) 114)

Object recognition
Stress; Food deprivation; Memory; Monoamines; Amino acids (Beck, K.D. (830) 56)

Obsessive compulsive disorder
Compulsive behavior; Transgenic mouse; Corticostriatal; Glutamate; Stereotypy (Campbell, K.M. (833) 216)

Obstructive sleep apnea
Intermittent hypoxia; c-*fos*; Sympathetic nervous system (Greenberg, H.E. (816) 638)

O_2 consumption
Lidocaine; 8-OH-DPAT; Serotonin; Nucleus raphe magnus; EMG (Berner, N.J. (831) 155)

Octavolateral center
Mesencephalon; Nerve projection; Tract tracing; Horseradish peroxidase; Carbocyanine; Brain; Agnathan (González, M.J. (826) 83)

Odor
Olfaction; Smell; Functional magnetic resonance imaging; Brain mapping; Gender effect; Cortex (Yousem, D.M. (818) 480)

ODQ
Cerebral arteriole; Nitric oxide; YC-1; Adenosine; Acetylcholine; Nitroprusside (Faraci, F.M. (821) 368)

OFF fiber
Escape behavior; Tetrodotoxin; Cadmium chloride; Optic tectum; Optic nerve; Myelinated and unmyelinated axons (King Jr., J.G. (841) 20)

6-OHDA
Parkinson's disease; Pedunculopontine nucleus; 2-Deoxyglucose autoradiography; Cerebral metabolism (Carlson, J.D. (828) 12)

6-OHDA lesion
Dopamine; Nucleus accumbens; Ventral tegmental area; ACTH-peptide; Supersensitivity (Vos, P.E. (831) 237)

8-OHdG
Oxidative DNA damage; Ischemia; Immunohistochemistry; Gerbil; Hippocampus (Won, M.H. (836) 70)

8-OH-DPAT,
5-HT; Suprachiasmatic nucleus; 5-HT$_{1A}$ receptor; 5-HT$_7$ receptor (Duncan Jr., W.C. (815) 126)

8-OH-DPAT
Male sexual behavior; Medial preoptic area; Dopamine; Serotonin; Raclopride; MPPI (Matuszewich, L. (820) 55)

Lidocaine; Serotonin; Nucleus raphe magnus; O_2 consumption; EMG (Berner, N.J. (831) 155)

Okadaic acid
Tau phosphorylation; Neurofibrillary tangle; Dystrophic neurite (Kim, D. (839) 253)

Olanzapine
FG 7142; Dizocilpine; Cognition; Active avoidance paradigm; Elevated plus maze (Ninan, I. (830) 337)

Olfaction
Slug; Mollusc; Tentacles; Tentacular digits; Local field potential (Ito, I. (815) 121)

Smell; Odor; Functional magnetic resonance imaging; Brain mapping; Gender effect; Cortex (Yousem, D.M. (818) 480)

G protein; Olfactory bulb; Accessory olfactory bulb; Olfactory neuron; Chemotopic projection (Wekesa, K.S. (837) 117)

Nitric oxide; Potassium channel; *Caudiverbera*; *Xenopus* (Schmachtenberg, O. (837) 301)

Dopamine; Receptor; Differentiation; Neurogenesis (Féron, F. (845) 252)

Olfactory axon
Dexamethasone; 3-Methylindole; Anterograde labeling; Optical density; Rat (Kratskin, I.L. (847) 240)

Olfactory bulb
Glucose-6-phosphate dehydrogenase; Rat brain; Periglomerular cell; Histochemistry; Electron microscopy (Ninfali, P. (819) 150)

G protein; Olfaction; Accessory olfactory bulb; Olfactory neuron; Chemotopic projection (Wekesa, K.S. (837) 117)

Potentiation; Late component; Olfactory cortex; Piriform cortex; Lateral olfactory tract; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

Tyrosine hydroxylase; Dopaminergic neuron; Ventral tegmental area; Arcuate nucleus; Noradrenergic neuron; Locus coeruleus (Hida, T. (842) 491)

Olfactory communication
Vasopressin; Golden hamster; Scent marking behavior (Ferris, C.F. (832) 1)

Olfactory cortex
Anesthetic; Dentate gyrus; GABA; Hippocampus; Perforant path; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Voltage-sensitive dye; HDB; MCPO; In vivo (Rosin, J.-F. (820) 105)

Potentiation; Late component; Piriform cortex; Olfactory bulb; Lateral olfactory tract; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

Olfactory function
Estrogen; Rat; 3-Methylindole (Dhong, H.-J. (824) 312)

Olfactory neuron
G protein; Olfaction; Olfactory bulb; Accessory olfactory bulb; Chemotopic projection (Wekesa, K.S. (837) 117)

Olfactory placode
Gonadotropin-releasing hormone; Migration; Olfactory system; Nervus terminalis; Human brain (Kim, K.H. (826) 220)

Olfactory system
Gonadotropin-releasing hormone; Migration; Nervus terminalis; Olfactory placode; Human brain (Kim, K.H. (826) 220)

Regeneration; Neurogenesis; Rat; Zinc sulfate; Growth factor (Herzog, C. (849) 155)

Oligemic episode
Dopamine; D1RmRNA; Striatum; Apomorphine; Aging (Heim, C. (851) 235)

Oligodendrocyte
Kainic acid; Serine protease (Tomizawa, K. (824) 308)

Intracellular Ca^{2+}; Phorbol ester; Process extension; Protein kinase C; Fura-2 (Yoo, A.S.J. (827) 19)

Demyelination; Remyelination; Jimpy ice; Galactocerebroside; Sulfatide (Cammer, W. (837) 188)

Calcium; Apoptosis; Jimpy; Myelin; Proteolipid protein; DM-20 protein; Fura-2 (Knapp, P.E. (847) 332)

Oligodendrocytes
Myelination; Ferritin; Iron; Stress-regulated protein (Cho, S.S. (816) 229)

Oligopeptidase
Nuclear enzyme; Peptide; Intracellular metabolism; Neuropeptide; Endopeptidase (Massarelli, E.E. (851) 261)

Olivocerebellar pathway
Spatial learning; Spatial memory; Harmaline; Rat (Meignin, C. (824) 277)

Olivocochlear
Serotonergic; Noradrenergic; Efferent; Auditory (Woods, C.I. (836) 9)

One-step RT-PCR
Steroid 5α-reductase mRNA; Gene expression; Serum deprivation; Rat C6 glioma cell (Morita, K. (830) 179)

Ontogenesis
Tissue culture; GABAergic neuron; Calcium-binding protein; Parvalbumin; Calbindin; Drug of abuse; Cocaine cytotoxicity; Immunocytochemistry (Glezer, I.I. (815) 389)

Ontogenesise
Epilepsy; Cholinergic; Seizure; Eserine; Development (Gruslin, E. (835) 290)

Ontogeny
Chicken; Thyrotropin-releasing hormone; Brain; Pituitary; Nucleus (Geris, K.L. (818) 260)

Acetylcholine; Calcium; CREB; Norepinephrine; Vasoactive intestinal peptide (Schomerus, C. (833) 39)

Immunohistochemistry; FMRFamide; Pituitary; Basophilic invasion; *Tupaia belangeri* (Scandentia) (Malz, C.R. (834) 83)

Oocyte
Neurosteroid; Alphaxalone; Allopregnanolone; Recombinant $GABA_A$ receptor; Voltage-clamp (Maitra, R. (819) 75)

[^{15}O]Oxygen
Oxygen consumption; Visualization; Tissue slice; Mitochondria; Brain (Sasaki, T. (831) 263)

Open channel blocking drug
Native AMPA receptor; GluR2 subunit; Adamantane derivative (Buldakova, S.L. (846) 52)

Operant and Spatial learning
ICSS-experience; Fornix lesioning; Amelioration; Hippocampus (Yoganarasimha, D. (845) 246)

Opiate
Feeding; Lordosis; Ultrastructure; Estrogen; Glucose; GAD (Commons, K.G. (816) 58)

Opioid receptor-like 1; Blood pressure; Heart rate; Circulation; Enkephalin; NC-NH_2; Naloxone (Chu, X. (829) 134)

Kappa-opioid receptor; Voltage-dependent calcium channel; Transmitter release; NMB neuroblastoma cell line (Keren, O. (843) 193)

Opiate agonist
Microvessel; Blood–brain barrier (Maresh, G.A. (839) 336)

Opiate dependence
Melatonin; Opiate tolerance; PK11195; Flumazenil (Raghavendra, V. (834) 178)

Opiate tolerance
Melatonin; Opiate dependence; PK11195; Flumazenil (Raghavendra, V. (834) 178)

Opioid
Cholecystokinin; Tolerance; Spinal cord; Microdialysis (Lucas, G.A. (821) 79)

Morphine; Self-administration; Proenkephalin; Striatum; Nucleus accumbens; Lewis; Fischer 344; Vulnerability (Martín, S. (821) 350)

c-Fos; Extended amygdala; CTAP; Nor-binaltorphimine (Carr, K.D. (822) 34)

Pain facilitation; Antinociception; Pronociception; Anti-analgesia; Stress; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

Kappa; Analgesia; Antisense mapping; $Kappa_1$ receptor; Dynorphin B; α-Neoendorphin (Pasternak, K.R. (826) 289)

Orphanin FQ; Nociceptin; Morphine; Reward; Preference (Murphy, N.P. (832) 168)

c-Fos; Jun-B; Chronic (Frankel, P.S. (835) 204)

Newborn; Cerebral circulation; Cyclic nucleotide; Nitric oxide (Armstead, W.M. (835) 315)

Morphine; Analgesia; Morphine-6-glucuronide (Zuckerman, A. (842) 1)

Cold pain; Heat pain; Anterior cingulate cortex; Mouse (Lee, D.E. (845) 117)

Hot-plate test; Nociception; Polydipsic inbred mouse (Kamikawa, H. (846) 171)

Neuropeptide; Cholecystokinin; Morphine; Neuropathy; Inflammation; Spinal cord; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

Cannabinoid; Dynorphin; Enkephalin; Analgesia; Endocannabinoid (Welch, S.P. (848) 183)

δ-Opioid agonist
Supraspinal/spinal synergy; Rostral–ventral medulla; [D-Ala^2,Glu^4]deltorphin; [D-Pen^2,D-Pen^5]enkephalin; Antinociception (Kovelowski, C.J. (843) 12)

μ-Opioid agonist
Dorsal raphe neuron; Intracellular calcium; Nociceptin; Serotonin; Neuropeptide FF (Roumy, M. (845) 208)

Opioid-binding cell adhesion molecule
OBCAM; Adult rat; Distribution; Localization; Immunostaining (Hachisuka, A. (842) 482)

Opioid growth factor receptor
Antisense; ζ-Opioid receptor; Rat; Gene; cDNA; mRNA (Zagon, I.S. (849) 147)

Opioid mechanisms
Allodynia; Inflammation; Morphine (Panula, P. (848) 191)

Opioid peptide
Microiontophoresis; Neuromodulation; Active sleep; Motoneuron; Cat (Xi, M.-C. (819) 155)

Periaqueductal grey; Nociceptive response latency; Galanin; Naloxone (Wang, D. (834) 152)

Opioid receptor
G protein; Phospholipase C; Cytosolic Ca^{2+}; Concentration; Manganese entry (Song, S.-L. (818) 316)

κ-Knockout; Knockout mouse; KOR gene; μ-Receptor; δ-Receptor; κ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

Antinociception; Morphine; Transgenic mouse (Fuchs, P.N. (821) 480)

Cytokine response element; NF-IL6 binding site (Im, H.-J. (829) 174)

κ-Opioid receptor
Rat; Enadoline; Pentylenetetrazol; Seizure; Kindling; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

κ3-Opioid receptor
Nociceptin receptor; Knockout mouse; Learning and memory; NalBzoH (Nabeshima, T. (848) 167)

μ Opioid receptor
PKCγ; Neurotensin; Somatostatin; Neurokinin 1 receptor; Neuropathic pain (Polgár, E. (833) 71)

μ-Opioid receptor
c-Fos; Spinal cord; RB101; Carrageenin; β-Funaltrexamine (Le Guen, S. (834) 200)

ζ Opioid receptor
In situ hybridization; Immunocytochemistry; Organogenesis; Mesoderm; Ectoderm; Endoderm; Proenkephalin mRNA (Zagon, I.S. (839) 313)

ζ-Opioid receptor
Antisense; Opioid growth factor receptor; Rat; Gene; cDNA; mRNA (Zagon, I.S. (849) 147)

Opioid receptor antagonist
Carrageenin; Inflammation; Morphine; Spinal cord; c-Fos (Catheline, G. (824) 105)

Opioid receptor-like 1
Blood pressure; Heart rate; Circulation; Opiate; Enkephalin; NC-NH_2; Naloxone (Chu, X. (829) 134)

Opioid receptor mapping
Juvenile isolation; Social play behavior; Play period; Social interaction test; Autoradiography; [^{3}H]-Diprenorphine (Van den Berg, C.L. (830) 16)

Opioid receptor subtype
Analgesia; Flunarizine; Hotplate test; Verapamil (Weizman, R. (818) 187)

Optical density
Dexamethasone; 3-Methylindole; Olfactory axon; Anterograde labeling; Rat (Kratskin, I.L. (847) 240)

Optical dissector
Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neocortex; Neuronal loss; Neuronal size distribution; Rotator; Stereology (Fischer, C.P. (828) 119)

Optical imaging
Entorhinal cortex; Isolated guinea pig brain; Piriform cortex; Voltage-sensitive dyes (De Curtis, M. (837) 314)

Optic lobe
Immunohistochemistry; Serotonin; Insect; Praying mantis; Lamina (Leitinger, G. (823) 11)

NADPH diaphorase activity; Visual functionality; Medfly (Conforti, E. (843) 1)

Optic lobes
$PACAP_{38}$; $PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Optic nerve
Lectin; Microglia; Retina; Teleost (Jimeno, D. (816) 175)

Escape behavior; Tetrodotoxin; Cadmium chloride; Optic tectum; Myelinated and unmyelinated axons; OFF fiber (King Jr., J.G. (841) 20)

Optic tectum
Spinal cord; Ascending spinal projection; Facial lobe; Vagal lobe; Goldfish (Prasada Rao, P.D. (817) 209)

Escape behavior; Tetrodotoxin; Cadmium chloride; Optic nerve; Myelinated and unmyelinated axons; OFF fiber (King Jr., J.G. (841) 20)

Oral
Lingual; Calcium imaging; Paresthesia; Trigeminal; Irritation (Bryant, B.P. (842) 452)

Oral–motor activity
Trigeminal; Minimal circuitry; Inhibitory circuitry (Tanaka, S. (821) 190)

Oral self-administration
Endogenous opioid; β-Endorphin; Null mutant; C57BL/6 mouse (Grisel, J.E. (835) 62)

Orbitofrontal
Superior temporal gyrus; Principal sulcus; Prearcuate (Hackett, T.A. (817) 45)

Orexin
Behavior; Burrowing; Feeding; Grooming; Neuropeptide Y (NPY) (Ida, T. (821) 526)

Hypocretin; Hypothalamic area, lateral; Hypothalamic area, perifornical; Feeding behavior; Hypothalamus (Sweet, D.C. (821) 535)

Feeding behavior; Hypothalamus; Immunohistochemistry (Nambu, T. (827) 243)

Hypocretin; Blood pressure; Food intake; Appetite (Samson, W.K. (831) 248)

Intracerebroventricular administration; Drinking behaviour; Fluid homeostasis; Lateral hypothalamus; Subfornical organ (Kunii, K. (842) 256)

Feeding behavior; Goldfish (Volkoff, H. (846) 204)

Orexin A
Ventromedial nucleus; Amygdala; Orexin B; Energy balance (Dube, M.G. (842) 473)

Orexin B
Ventromedial nucleus; Amygdala; Orexin A; Energy balance (Dube, M.G. (842) 473)

Organogenesis
In situ hybridization; Immunocytochemistry; Mesoderm; Ectoderm; Endoderm; Proenkephalin mRNA; ζ Opioid receptor (Zagon, I.S. (839) 313)

Organotypic coculture
Spontaneous activity; Thalamocortical system; NMDA receptor; Low magnesium (Hentschke, H. (830) 123)

Organotypic culture
Neomycin intoxication; Protective action; Retinoic acid; Insulin; Epidermal growth factor; Transforming growth factors (Romand, R. (825) 46)

Hippocampus; Ischaemic preconditioning; Heat shock protein; Excitotoxicity (Pringle, A.K. (845) 152)

Organotypic hippocampal culture
Low magnesium; Seizure; Dentate gyrus (Gutiérrez, R. (815) 294)

Orienting movement
Visuomotor; Lateral geniculate nucleus; Reticular formation; Saccade (Billet, S. (847) 121)

ORL1 receptor
Hyperalgesia; Analgesia; Endomorphin-1; μ-opiate receptor; Orphanin FQ (Wang, Y.-Q. (835) 241)

Ornithine decarboxylase
Transgenic rat; Magnetic resonance imaging; Focal cerebral ischemia (Lukkarinen, J.A. (826) 325)

Orofacial
Cold block; Swallow; Cortex (Narita, N. (824) 140)

Orofacial pain
Masseter; Adrenalectomy; Vagotomy; Rat (Imbe, H. (845) 165)

Orphan G-protein-coupled receptor
Neuropeptide; Serendipity; Reverse pharmaceutical research (Civelli, O. (848) 63)

Orphanin FQ
Chronic morphine tolerance; Radioimmunoassay; Amygdala; Cerebroventricular perfusate; Periaqueductal gray (Yuan, L. (826) 330)

Nociceptin; Medial vestibular nucleus; Vestibulo-ocular reflex (Sulaiman, M.R. (828) 74)

Nociceptin; Opioid; Morphine; Reward; Preference (Murphy, N.P. (832) 168)

Hyperalgesia; Analgesia; Endomorphin-1; μ-opiate receptor; ORL1 receptor (Wang, Y.-Q. (835) 241)

Anxiety; Defense behavior; Diazepam; Stress (Griebel, G. (836) 221)

Nociceptin; Microdialysis; Striatum; Acetylcholine; [$Phe^1\Psi(CH_2–NH)Gly^2$] nociceptin-(1-13)–NH_2 (Itoh, K. (845) 242)

Orthophosphate
Endoplasmic reticulum; SERCA; Calcium homeostasis; Thapsigargin; Intracellular (Parsons, J.T. (834) 32)

Oscillator
Circadian rhythm; Single unit activity; Rat; Singularity; Clock resetting (Franken, P. (818) 34)

Osmoregulation
Marine bird; Nitric oxide; NADPH-diaphorase; Hypothalamus; Central control of salt gland function; Avian antidiuretic hormone; Cerebrospinal fluid contacting neuron (Hübschle, T. (825) 22)

Osmotic effect
Hyponatremia; Intracellular calcium; Potassium current; Calcium current; Cell volume (Somjen, G.G. (851) 189)

Osmotic pump
Glucocorticoid receptor; RU38486; Post-rotatory nystagmus; Guinea pig (Shimogori, H. (851) 258)

Osmotic stimulus
Fos-protein; Vasopressin; Oxytocin; Hypothalamus (Rocha, M.J.A. (829) 197)

Osmotic stress
Cerebral ischemia; Amino acid release; Swelling; Volume regulation; Glutamate; GABA; Taurine; Ion substitution (Phillis, J.W. (828) 1)

Osteocalcin
Calcitonin gene-related peptide; Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Parvalbumin; Trigeminal ganglion (Ichikawa, H. (838) 205)

Osteopontin
Myelin; Chick; Immunohistochemistry; Western blot; Demyelination (Kang, T.-C. (818) 527)

Otic ganglion
Sphenopalatine ganglion; Neuropeptide Y; Vasoactive intestinal peptide; Calcitonin gene-related peptide; Human (Uddman, R. (826) 193)

Ototoxicity
Excitotoxicity; NMDA receptor; Aminoglycoside; Neomycin; Polyamine (Segal, J.A. (815) 270)

Transdifferentiation; β-galactoside; Lectin; Cochlea; Rat (Bartolomé, M.V. (822) 43)

BDNF; *Trk*B; Vestibular epithelia; Regeneration (Popper, P. (846) 40)

Ouabain
Na^+,K^+ATPase; Spreading depression; Hypoxia; Ischemia; Hippocampus; Brain slice (Balestrino, M. (838) 37)

Outer hair cell
Cochlea; Voltage-dependent chloride channel; Single-cell RT-PCR (Kawasaki, E. (838) 166)

Output pathway
Circadian oscillator; Adenosine 3′,5′-cyclic monophosphate; Melatonin; Retinal photoreceptor layer; *Xenopus laevis* (Hasegawa, M. (824) 161)

Ovariectomy
Locus coeruleus; Luteinizing hormone; Pulsatile secretion (Anselmo-Franci, J.A. (833) 86)

Voltammetry; Rat; Dopamine transporter (Thompson, T.L. (834) 164)

Alzheimer's disease; Basal forebrain; Cholinergic; Gonadal; Steroids (Mufson, E.J. (849) 253)

Ovary
Neurotrophic factor; NTN; Expression; Adrenal gland; Gut (Xian, C.J. (835) 247)

Overweight
Perinatal overnutrition; Insulin; Hypothalamus; Galanin; Paraventricular hypothalamic nucleus (Plagemann, A. (818) 160)

OX-6
Microglia; OX-42; Spinal cord; Gracile nucleus; Formalin; Rat (Fu, K.-Y. (825) 59)

OX-42
Microglia; OX-6; Spinal cord; Gracile nucleus; Formalin; Rat (Fu, K.-Y. (825) 59)

Oxidation
FGF; SK-N-MC; Hippocampal neuron (Mark, R.J. (830) 88)

Oxidative DNA damage
8-OHdG; Ischemia; Immunohistochemistry; Gerbil; Hippocampus (Won, M.H. (836) 70)

Oxidative phosphorylation
Kainate-treated rat; Epilepsy model; Hippocampal slice; Calcium cycling (Kunz, W.S. (826) 236)

Oxidative stress
Cerebral palsy; Oxygen free radicals; Reperfusion; White matter (Jelinski, S.E. (815) 150)

Antibodies; Nitric oxide; Cortex; Striatum; Thalamus (Maybodi, L. (817) 199)

Methamphetamine; Neurotoxicity; Selenium; Dopamine; Caudate nucleus (Imam, S.Z. (818) 575)

Neural transplantation; Lipid peroxidation; Dopamine; Parkinson's disease; Anesthesia (Karlsson, J. (821) 546)

Iron; Hydroxyl radical; Immediate early gene; c-*fos*; Parkinson's disease (Hironishi, M. (828) 145)

Amyloid β protein; 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay; Cell death; Exocytosis; Rat hippocampal neurons (Abe, K. (830) 146)

8-Hydroxy-2′-deoxyguanosine; Cerebral ischemia; Rat; Terminal deoxynucleotidyl transferase-mediated dUTP-biotin in situ nick end labeling (TUNEL) (Hayashi, T. (832) 159)

Amyotrophic lateral sclerosis; Antioxidant enzyme; Caloric restriction; Motor neuron (Pedersen, W.A. (833) 117)

Kainic acid; c-Jun; Phosphorylation; Cyclooxygenase; Neuronal apoptosis (Matsuoka, Y. (836) 213)

Methamphetamine; Peroxynitrite; Dopamine; 3-Nitrotyrosine; Striatum (Imam, S.Z. (837) 15)

Alzheimer; Apoptosis; Calorie restriction; Excitotoxicity; Hydroxynonenal; Kainate (Zhu, H. (842) 224)

Metals; Amyloid precursor protein; Copper; Knockout (White, A.R. (842) 439)

Ascorbic acid; Ischemia; Torpor; Arctic ground squirrel; 13-lined ground squirrel (Drew, K.L. (851) 1)

Dietary selenium; Methamphetamine-induced neurotoxicity; Dopamine; Cu,Zn-superoxide dismutase; Ratio of reduced glutathione/oxidized glutathione; Glutathione peroxidase; Malondialdehyde (Kim, H.-C. (851) 76)

Oxidized low density lipoprotein
Antioxidant; Astrocyte; Calcium; Microglia; Reactive oxygen species (Keller, J.N. (830) 10)

Oxotremorine
Hippocampus; Memory; Diabetes; Glucose; Insulin; Muscimol; Bicuculinne; Acetylcholine (Messier, C. (818) 583)

Oxygen
Microcirculation; Diffusion; Activation; MRI; Blood flow; Metabolism (Hudetz, A.G. (817) 75)

Cerebral blood flow; Rostral ventrolateral medulla; ATP-sensitive potassium channel; Hypoxia; Arterial pressure (Golanov, E.V. (827) 210)

Oxygen consumption
Visualization; Tissue slice; [^{15}O]Oxygen; Mitochondria; Brain (Sasaki, T. (831) 263)

Oxygen free radical
21-Aminosteroid; Antioxidant; Ischemia–reperfusion; Neuroprotection; Pyrrolopyrimidine (Schmid-Elsaesser, R. (816) 471)

Oxygen free radicals
Cerebral palsy; Oxidative stress; Reperfusion; White matter (Jelinski, S.E. (815) 150)

Oxygen–glucose deprivation
Ischemic preconditioning; Calcium; Protein kinase C; Mitogen-activated protein kinase; Cortical neuron (Tauskela, J.S. (827) 143)

Oxygen measurements
Hypoxia; Potassium currents; Hippocampal neurons; Hydrosulphite (Gebhardt, C. (837) 270)

Oxytocin
Hypothalamus; Adrenocorticotropin; HPA axis; Development; Sheep (Matthews, S.G. (820) 92)

Fos; Lactation; Milk ejection; Magnocellular nuclei; Nitric oxide synthase (Okere, C.O. (828) 104)

Vasopressin; Immunocytochemistry; Microtubule; Cytoskeleton; Plasticity; Shape conversion; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

Fos-protein; Osmotic stimulus; Vasopressin; Hypothalamus (Rocha, M.J.A. (829) 197)

Corticotropin-releasing factor; Paraventricular nucleus; Supraoptic nucleus; Vasopressin; Ventrolateral medulla catecholamine cell (Buller, K.M. (834) 42)

Neuropeptide; Evolution; Vasopressin; Neuropeptide Y; Receptor (Hoyle, C.H.V. (848) 1)

P

P450
Basal ganglia; Brain; CYP2D; Immunohistochemistry; Parkinson's disease (Riedl, A.G. (822) 175)

p53
Neuron; Focal ischemia; Stroke-prone spontaneously hypertensive rat; Apoptosis (Watanabe, H. (837) 38)

$p75^{NTR}$
CNTF; NGF; Induction; Cortical astrocyte; Interaction; Rat (Semkova, I. (838) 184)

tPA
HGF/SF; c-*met*; In situ hybridization; Cerebral cortex; Hippocampus (Thewke, D.P. (821) 356)

t-PA
u-PA; Age; Middle cerebral artery occlusion; Mouse (Ahn, M.Y. (833) 112)

u-PA; Cerebral ischemia; Mice; Embolic stroke (Ahn, M.Y. (837) 169)

u-PA
t-PA; Age; Middle cerebral artery occlusion; Mouse (Ahn, M.Y. (833) 112)

t-PA; Cerebral ischemia; Mice; Embolic stroke (Ahn, M.Y. (837) 169)

$PACAP_{27}$
$PACAP_{38}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

$PACAP_{38}$
$PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Pacemaker
Dopamine neuron; Brain slice; Bursting (Shepard, P.D. (817) 104)

Nervous system; Circadian rhythm; Cytokine; Development (Lundkvist, G.B. (849) 231)

PAF
Protein tyrosine phosphorylation; Cerebral cortex (Calcerrada, M.C. (835) 275)

Pain
Endomorphin-2; Ala-pyrrolidonyl-2-nitrile; Dipeptidyl peptidase IV; D-Pro^2-endomorphin-2; Naltrexone; Analgesia (Shane, R. (815) 278)

Wide dynamic range neuron; Post discharge; LTP; Sciatic nerve block; Spinalization (Svendsen, F. (816) 487)

Nociception; Withdrawal reflex; Noxious stimulation; C-fibre response; Single motor unit (Mazario, J. (816) 512)

Brush; Fos; Dorsolateral funiculus; Spinal cord; Rat (Wei, F. (820) 112)

Antinociception; Morphine; Sex difference; Adult gonadectomy (Krzanowska, E.K. (821) 224)

WIN55,212-2; Tail-flick; CB1 receptor; Rat; Cannabinoid; Analgesia (Martin, W.J. (822) 237)

Cat; Trigeminal; Time; Headache (Hoskin, K.L. (824) 133)

Sodium channel augmentation; Inflammation; Dorsal root ganglia (Gould III, H.J. (824) 296)

Mu-opioid receptor; Immunohistochemistry; Central nucleus of the amygdala; Blood pressure (Chamberlin, N.L. (827) 198)

Vagus nerve; Thalamus; Nucleus ventralis posteromedialis; Antinociception (Nishikawa, Y. (833) 108)

Nerve injury; Nociception; Spinal cord (Xu, I.S. (833) 251)

Antinociception; Centromedian–parafascicular complex; Evoked potential; Brain rewarding stimulation; Rabbit ontogenesis (Butkevich, I.P. (834) 13)

Chronic constriction injury; Inhibitory neurotransmitter; Dorsal horn (Eaton, M.J. (835) 334)

Nociception; Withdrawal reflex; Noxious stimulation; Wind-up (Herrero, J.F. (840) 106)

TNF; Norepinephrine; α_2-Adrenergic receptor; Microinfusion; Hippocampus (Ignatowski, T.A. (841) 70)

Somatosensory cortex; Visceronociceptive neuron; Intracellular recording; Neurobiotin labeling (Jinghong, C. (846) 243)

Pain facilitation
Opioid; Antinociception; Pronociception; Antianalgesia; Stress; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

Pain modulation
Dorsal column; Electroanalgesia; Raphe; Brainstem; Flexion reflexes (Saadé, N.E. (846) 72)

Pain: neuropathic
Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Munglani, R. (822) 210)

Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Hudspith, M.J. (822) 220)

Pain stimulation
Alerting response; Trigeminal depressor response; Skin vasomotor reflex; Skin blood flow (Nalivaiko, E. (847) 343)

Paired cortical stimulation
Cortical silent period; Intracortical inhibition; Pyramidal tract neuron (Shimizu, T. (834) 74)

Paired helical filament
Transglutaminase; Neurofibrillary tangle; Cross-linking; Polymerization (Norlund, M.A. (851) 154)

Paired helical filaments
Protein kinase C; Protein kinase M phosphorylation; Calpain; MAP kinase; Tau; Alzheimer's disease; Signal transduction (Ekinci, F.J. (850) 207)

Paired-pulse
Glucose; Hippocampus; Synaptic plasticity; Long-term potentiation; Facilitation (Kamal, A. (824) 238)

Paired pulse
Genetic absence epilepsy rats of Strasbourg (GAERS); Field potential; Epileptiform activity; CA1 area; Hippocampus (Armand, V. (841) 62)

Paired-pulse facilitation
Alzheimer's disease; β-Amyloid; Amyloid precursor protein; Transgenic; Long-term potentiation; CA1 (Larson, J. (840) 23)

Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus; Synaptic plasticity (Costenla, A.R. (851) 228)

Paired-pulse inhibition
Dentate gyrus; Hippocampus; Hyperactivity; Theta; GABA; Exocytosis (Steffensen, S.C. (847) 186)

Paired-pulse interactions
Adenosine; Purines; Acetylcholine; Muscarinic (Nikbakht, M.-R. (829) 193)

Paired stimuli
Transient evoked field; Human visual cortex; Extrastriate area; Neuromagnetic source localization; Retinotopy; Superposition of response (Supek, S. (830) 43)

Pallium
Retrograde tracing; Anterograde tracing; Neurobiotin; Telencephalic subregion; Sensory processing (Von der Emde, G. (818) 355)

Parabrachial nucleus
Nucleus ambiguus; Kölliker–Fuse nucleus; Biotinylated dextran amine; Cholera toxin; Swallowing (Hayakawa, T. (816) 364)

Paracrine communication
Pinealocyte; Amino acid; Double-labeling; Vimentin; Synaptic-like microvesicle (Pabst, H. (838) 60)

Paradoxical sleep
Slow-wave sleep; Cerebral temperature; Constant darkness; Constant light; Prolactin; Melatonin (Lobo, L.L. (835) 282)

Parallel fiber
Granule cell; Aging; Cerebellum; Cerebellar (Huang, C.-m. (840) 148)

Paraquat
Parkinson's; MPTP; Tyrosine hydroxylase (Brooks, A.I. (823) 1)

Parasympathetic
Micturition; Genitourinary; Electrical stimulation; Neural prosthesis (Grill, W.M. (836) 19)

Parasympathetic motoneuron
Vagus nerve; Retrograde tracing; Double labeling; Esophagocardiac reflex (Cheng, S.-B. (832) 171)

Parasympathetic neuron
Cardiac ganglia; Immunocytochemistry; Reverse transcription polymerase chain reaction; Neuropeptide Y; Microtubule-associated protein-2; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Paraventricular
Lateral hypothalamus; Ingestive behavior; Neuropeptide (Kay-Nishiyama, C. (822) 251)

Paraventricular hypothalamic nucleus
Median preoptic nucleus; Ventrolateral medulla; Catecholamine; Anterograde and retrograde tracing; Rat (Kawano, H. (817) 110)

Perinatal overnutrition; Overweight; Insulin; Hypothalamus; Galanin (Plagemann, A. (818) 160)

Antisense oligonucleotide; Angiotensinogen; Sympathetic nervous system; Blood pressure; Vasopressin (Kagiyama, S. (829) 120)

Arcuate nucleus; Coexistence; Feeding; Immunohistochemistry; In situ hybridization; Monosodium glutamate; Mouse (Broberger, C. (848) 101)

Paraventricular nuclei
Hypothalamus; Neurotensin; Vasopressin; Double immunostaining; Synapse; Electron microscopy (Wang, Q.-P. (834) 25)

Paraventricular nucleus
Body weight; Hyperphagia; Adipocyte; Insulin (Dube, M.G. (816) 38)

Hippocampus; Hypothalamus; Neural stimulus; CRH-41; Glucocorticoid receptor antagonist; Negative feedback (Feldman, S. (821) 33)

Nitric oxide; NO synthase; Corticotropin-releasing factor (Harada, S. (821) 322)

Cortical spreading depression; Hippocampus; Hyperthermia; Unit activity; Rat (Monda, M. (824) 119)

Immobilization; Microdialysis; Norepinephrine; Yohimbine (Tjurmina, O.A. (826) 243)

Corticotropin-releasing factor; Oxytocin; Supraoptic nucleus; Vasopressin; Ventrolateral medulla catecholamine cell (Buller, K.M. (834) 42)

Neuropeptide Y; DAMGO; Sucrose (Giraudo, S.Q. (834) 160)

Male rat; Castration; Dopamine; Tyrosine hydroxylase; Medial preoptic area; Nitric oxide synthase; NADPH-d; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

Arginine vasopressin; 2-Deoxy-D-glucose; Supraoptic nucleus; Fos; Glucoprivation (Briski, K.P. (839) 341)

Melatonin receptor; Photoresponsiveness; Individual variation; Seasonal breeding; Pars tuberalis; Suprachiasmatic nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Monoamine; γ-Aminobutyric acid; Ventromedial nucleus; Feeding behavior; Energy balance (Ohtani, N. (842) 6)

Hypothalamo-pituitary-adrenocortical axis; Septum; Hippocampus; Amygdala; Suprachiasmatic; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

Discrimination; Morphine; Naloxone; Perifornical area (Cleary, J.P. (847) 26)

Hypothalamus; Obesity; Neuropeptide Y; Arcuate nucleus; Dopamine; Norepinephrine; Transporter (Baskin, D.G. (848) 114)

Hypothalamus; Arcuate nucleus; Glucose; Eating behavior; Insulin corticosterone (Wang, J. (848) 124)

Corticotropin-releasing hormone; Amygdala; Bed nucleus of the stria terminalis; Psychological stress (Makino, S. (850) 136)

Fenfluramine; Corticosterone; ACTH; Supraoptic nucleus (Mikkelsen, J.D. (851) 247)

Paraventricular nucleus of the hypothalamus
Regulation of food intake; c-Fos induction; i.c.v. Injection (Vrang, N. (818) 499)

Fos; Stress-induced sensitization; Cardiovascular responsivity; Brain–gut interaction (Bruijnzeel, A.W. (819) 15)

Anterograde and retrograde tracers; Fos; Locus coeruleus (Tassorelli, C. (842) 294)

Paraventricular thalamus
Circadian rhythm; Chronic stress; Energy balance; Feeding; Temperature (Bhatnagar, S. (851) 66)

Paresthesia
Oral; Lingual; Calcium imaging; Trigeminal; Irritation (Bryant, B.P. (842) 452)

Parkinson
Acetylcholine; Dopamine, D1; c-AMP; Tremor; Motor; Vacuous; Chewing (Mayorga, A.J. (829) 180)

Parkinson's
MPTP; Paraquat; Tyrosine hydroxylase (Brooks, A.I. (823) 1)

Parkinson's disease
Reaction time; Simple reaction time; Choice reaction time; Bradykinesia; Akinesia (Kutukcu, Y. (815) 367)

Adult derived astrocyte; Transplant; Adenoviral vector (Ljungberg, M.C. (816) 29)

Monkey; Dopamine; Microdialysis; Substantia nigra (Gerhardt, G.A. (817) 163)

Free radical; Histidine; 1-Methyl-4-phenylpyridinium ion (MPP^+); Microdialysis (Obata, T. (817) 206)

Growth/differentiation factor 5; Neuroprotection; 6-Hydroxydopamine; Dopamine (Sullivan, A.M. (818) 176)

TNF; Ceramide; SPP; Mesencephalic neuron; Neuroprotection (Shinpo, K. (819) 170)

6-Hydroxydopamine lesion; Basal ganglia; NMDA antagonist; KN93; Motor response alterations (Oh, J.D. (821) 433)

Neural transplantation; Oxidative stress; Lipid peroxidation; Dopamine; Anesthesia (Karlsson, J. (821) 546)

Basal ganglia; Brain; CYP2D; Immunohistochemistry; P450 (Riedl, A.G. (822) 175)

MPTP; 3-Nitrotyrosine; Nitric oxide; Peroxynitrite (Ferrante, R.J. (823) 177)

6-OHDA; Pedunculopontine nucleus; 2-Deoxyglucose autoradiography; Cerebral metabolism (Carlson, J.D. (828) 12)

Hydroxyl radical; MPP^+; Dopamine; Reserpine (Obata, T. (828) 68)

Neurotoxin; Basal ganglia; Neurogenetics; Gender (Hamre, K. (828) 91)

Iron; Oxidative stress; Hydroxyl radical; Immediate early gene; c-*fos* (Hironishi, M. (828) 145)

L-Deprenyl; Neurite outgrowth; Neurotrophic; Brain derived neurotrophic factor (Kontkanen, O. (829) 190)

MPTP; Monkey; Single photon emission computed tomography; Dopamine transporter; β-CIT (Eberling, J.L. (832) 184)

Electrophysiology; Dopamine; Striatum; Freely moving rat (Kish, L.J. (833) 58)

Monoamine oxidase; Intermediolateral nucleus; Sympathetic preganglionic neuron; Noradrenergic neuron; Serotonergic neuron (Yamada, H. (833) 302)

Basal ganglia; Nigrostriatal pathway; Nigropallidal projection; Single cell labeling; Huntington's disease (Gauthier, J. (834) 228)

Insulin-like growth factor-I; Insulin-like growth factor binding protein; Human olfactory epithelium; Idiopathic late onset cerebellar ataxia; Amyotrophic lateral sclerosis (Federico, G. (835) 306)

Sertoli cell; Transplantation; Striatum; Substantia nigra (Liu, H.-W. (838) 227)

Dopaminergic lesion; Sprouting; Transplantation; Striatum (Lopez-Martin, E. (842) 119)

Nigrostriatal; Uptake; Nomifensine (Disshon, K.A. (842) 399)

ACh release; Dopamine; GABA release; Glutamate; NMDA; Striatum (Hanania, T. (844) 106)

Glial cell line-derived neurotrophic factor; Neurotrophic factor; Neuroprotection; Neural transplantation (Yurek, D.M. (845) 21)

Adeno-associated virus; Brain-derived neurotrophic factor; Green fluorescent protein; Locomotor behavior; Substantia nigra (Klein, R.L. (847) 314)

Paroxysmal dyskinesia
Basal ganglia; Dorsomedial caudate–putamen; Movement disorder; Type II neuron; GABAergic system (Gernert, M. (821) 277)

PARP
Apoptosis; Reactive oxygen species; Caspase; Nitric oxide; Glutamate (Ishikawa, Y. (824) 71)

PAR protein
Hepatic leukemia factor; In situ hybridization; Synaptogenesis (Hitzler, J.K. (820) 1)

Pars tuberalis
Melatonin receptor; Photoresponsiveness; Individual variation; Seasonal breeding; Suprachiasmatic nucleus; Paraventricular nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Partial epilepsy
Inhibition; Tetanus toxin; Rat (Hagemann, G. (818) 127)

Parvalbumin
Tissue culture; GABAergic neuron; Calcium-binding protein; Calbindin; Drug of abuse; Cocaine cytotoxicity; Immunocytochemistry; Ontogenesis (Glezer, I.I. (815) 389)

Dorsal root ganglion; Mesencephalic trigeminal tract nucleus; Peptide 19; Proprioceptor; S100 (Ichikawa, H. (821) 231)

Ethacrynic acid; c-*fos*; Nerve growth factor; Generalized tonic–clonic convulsion; Seizure susceptibility (Suzukawa, J. (834) 89)

Chondroitin sulphate proteoglycan; Extracellular matrix; Perineuronal net; Phosphacan; Rat cerebral cortex; WFA (Haunsø, A. (834) 219)

Calcitonin gene-related peptide; Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Osteocalcin; Trigeminal ganglion (Ichikawa, H. (838) 205)

Extracellular matrix; Chondroitin sulphate proteoglycans; Fast-firing neurons; Triple fluorescence labelling; Rat; Monkey (Härtig, W. (842) 15)

Calbindin D-28k; Calcitonin-gene related peptide; Jugular ganglion; Nodose ganglion; Petrosal ganglion; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Peptide 19; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

Amygdala; Dopamine; Catecholamine; Tyrosine hydroxylase; Dopamine-beta-hydroxylase (Brinley-Reed, M. (850) 127)

Parvocellular paraventricular nucleus
Gerbil; Rat; Substance P; Immunohistochemistry; Dehydration (Kang, T.-C. (820) 101)

Passive avoidance
Median raphe nucleus; Lidocaine; Reversible inactivation (Sarihi, A. (817) 59)

Four-vessel occlusion; Energy metabolism; Adenosine; Reference memory; Working memory (Plaschke, K. (830) 320)

Trihexyphenidyl; Biperiden; Learning and memory; Scatchard analysis; Exchange assay (Kimura, Y. (834) 6)

Galanin; Acetylcholine; Serotonin; Cognition; Spatial learning; Microdialysis (Ögren, S.O. (848) 174)

Passive avoidance learning
Amino acid; Rat; Sepsis; Serotonin (Shimizu, I. (830) 94)

Adenosine; Chick; Brain slice; Adenosine A_1 receptor; Adenosine A_2 receptor (Daisley, J.N. (847) 149)

Patch clamp
Chemosensory neurons; 5-HT_3 receptors; Ligand-gated channels (Zhong, H. (816) 544)

Tract tracing; Sodium channels; Potassium channels; Neuronal cell culture (Johnson, R.F. (817) 226)

Seizure; γ-Aminobutyric acid receptor/channel; Whole cell $GABA_A$ current; Freshly isolated neuron (Ye, J.H. (821) 26)

Pb^{2+}; Hippocampus; Miniature postsynaptic currents; Tetrodotoxin; Transmitter release (Braga, M.F.M. (826) 10)

Glutamate receptor channel; Neuromodulation; Decay time constant; Single channel recording; Miniature synaptic current (Nishikawa, K.-i. (837) 67)

Patch-clamp
Calcium current; Current density; Entorhinal cortex; Rat; Whole cell (Bruehl, C. (816) 554)

Waglerin-1; GABA (γ-aminobutyric acid); Whole-cell current; Nucleus accumbens; Protein kinase A (Ye, J.-H. (837) 29)

Calcium; Glioblastoma; Proliferation (Chattopadhyay, N. (851) 116)

Patch-clamp electrophysiology
Postnatal ethanol treatment; γ-Aminobutyric $acid_A$ receptor; Neuronal development; Cerebellum; Purkinje neuron; Fetal alcohol syndrome (Hsiao, S.-H. (832) 124)

Patch-clamp recording
Mouse; Glia; Single-cell RT-PCR (Schmidt, K. (843) 145)

Pb^{2+}
Hippocampus; Miniature postsynaptic currents; Patch clamp; Tetrodotoxin; Transmitter release (Braga, M.F.M. (826) 10)

Hippocampus; Electrophysiology; GABA; Glutamate; Transmitter release (Braga, M.F.M. (826) 22)

PBR
DBI fragment; Wallerian degeneration; Pregnenolone biosynthesis; Remyelination (Lacor, P. (815) 70)

PC12 cell
Melatonin; 6-hydroxydopamine; Electron microscopy; Apoptosis; Necrosis (Mayo, J.C. (818) 221)

Diacylglycerol; Phosphatidylcholine; Long chain acyl-CoA synthetase; Phospholipase; Nerve growth factor (Li, J. (818) 252)

Trophic factor withdrawal; Ceramide; Free radical; Nuclear factor-κB (Lambeng, N. (821) 60)

Acetylcholine receptor; Nootropic drug; Nefiracetam; Protein kinase; G protein (Oyaizu, M. (822) 72)

PC12 cells
DOPA synthesis; Tyrosine; Phenylalanine; Tyrosine hydroxylase (DePietro, F.R. (831) 72)

PCP receptor
Dimemorfan; Dextromethorphan; Dextrorphan; Sigma receptor; Locomotor activity; Anticonvulsant (Chou, Y.-C. (821) 516)

PD 128907
Dopamine D_3 receptor; Binding affinity; Basal ganglia; Caudate–putamen; Islands of Calleja (Hillefors, M. (822) 126)

PD
Antioxidant; Glutathione (GSH); Catalase; Superoxide dismutase (SOD); Neuroprotection; Free radical (Iida, M. (838) 51)

PD 81,723
Adenosine; A_1 receptor; Allosterism; Adipocyte (Jarvis, M.F. (840) 75)

PDBu
Butorphanol; Withdrawal; Forskolin; Autoradiography (Jang, C.-G. (821) 520)

Muscimol; Flunitrazepam; TBPS; GABA; Autoradiogram (Oh, S. (850) 158)

L-PDC
Glutamate reuptake blocker; Excitatory amino acid; Nucleus accumbens; Locomotor activity (Kim, J.-H. (819) 165)

Pedunculopontine nucleus
Auditory evoked potential; P1 potential; Startle; Prepulse inhibition; Sensory gating (Miyazato, H. (822) 60)

Parkinson's disease; 6-OHDA; 2-Deoxyglucose autoradiography; Cerebral metabolism (Carlson, J.D. (828) 12)

Pedunculopontine tegmentum
Nitric oxide; Cholinergic cell; Sleep; Wakefulness; Rat (Hars, B. (816) 209)

Pelvic ganglion
SIF cell; Catecholamine synthesizing enzyme; Adrenaline; Acetylcholine; Muscarinic receptor (Prud'homme, M.-J. (821) 141)

Pelvic nerve
Spinal cord; Ascending tract; Mesencephalon; Electrical stimulation; Extracellular unit recording; Micturition (Duong, M. (819) 108)

[D-Pen^2,D-Pen^5]enkephalin
Supraspinal/spinal synergy; δ-Opioid agonist; Rostral–ventral medulla; [D-Ala^2,Glu^4]deltorphin; Antinociception (Kovelowski, C.J. (843) 12)

Penile reflex
Receptor; Serotonin; Copulatory behavior; Buspirone; Gepirone; DPAT; BMY-7378 (Rehman, J. (821) 414)

Pentoxifylline
Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; Corticosterone; IL-1ra; Rolipram; AIDS (Yirmiya, R. (829) 28)

Pentylenetetrazol
Rat; Enadoline; κ-Opioid receptor; Seizure; Kindling; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Polyamine; *N*-Acetylpolyamine; γ-Aminobutyric acid; Kindling; Seizure (Hayashi, Y. (828) 184)

Cerebral ischemia; Seizure; GABA; NMDA; Lidocaine (Kim, D.-C. (831) 131)

Pentylenetetrazole
GLAST; Knockout mice; Kindling; Secondary generalized epilepsy; Primary generalized epilepsy (Watanabe, T. (845) 92)

Eicosapentaenoic acid; Neuronal excitability; Seizure; Glutamate (Xiao, Y.-F. (846) 112)

Pentylenetetrazol (PTZ)
Seizure; Kindling; Free hydroxyl radical; Salicylate trapping (Rauca, C. (847) 347)

Penumbra
Cathepsin L; Acid phosphatase; Cerebral; Ischemia–reperfusion (Işlekel, H. (843) 18)

Cerebral ischemia, focal; Photothrombosis; Reperfusion; Evolution of ischemia; Rat (Hu, X.L. (849) 175)

Peptide 19
Dorsal root ganglion; Mesencephalic trigeminal tract nucleus; Parvalbumin; Proprioceptor; S100 (Ichikawa, H. (821) 231)

Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Parvalbumin; S100; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

Peptide
Pineal gland; Synapse; Immunocytochemistry; Innervation; Tree shrew (*Tupaia glis*) (Kado, M. (842) 359)

Blood–brain barrier; Saturable transport; Diffusion (Kastin, A.J. (848) 96)

Nuclear enzyme; Intracellular metabolism; Neuropeptide; Endopeptidase; Oligopeptidase (Massarelli, E.E. (851) 261)

Peptide function
Expression pattern; Model organism (Li, C. (848) 26)

Peptidergic neuron
Neurotrophin; SRIF; Neuropeptide Y; BDNF; gp120; Brain (Barnea, A. (815) 349)

Peptide T
Vasoactive intestinal peptide; Chemokine; gp120; Acquired immunodeficiency syndrome; Secretion (Brenneman, D.E. (838) 27)

Perforant path
Anesthetic; Dentate gyrus; GABA; Hippocampus; Olfactory cortex; Anterior piriform cortex; Prepyriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Perforant path stimulation
Cerebral glucose metabolism; 2-Deoxyglucose; Status epilepticus; Rat (Pereira de Vasconcelos, A. (838) 110)

Perforated patch recording
Zinc; Strychnine; Glycine; Cl^- current (Doi, A. (816) 424)

Perfusate
Secretogranin II; Secretoneurin; Proteolysis; Secretion; Spleen (Liang, F. (818) 459)

Periaqueductal gray
Opioid; Pain facilitation; Antinociception; Pronociception; Anti-analgesia; Stress; Tail-flick test (Hawranko, A.A. (824) 251)

Orphanin FQ; Chronic morphine tolerance; Radioimmunoassay; Amygdala; Cerebroventricular perfusate (Yuan, L. (826) 330)

Antinociception; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Dorsolateral funiculus; Carbachol (Guimarães, A.P.C. (827) 152)

Nucleus submedius; Visceral nociception; Spinal dorsal horn; Colorectal distension; Rat (Okada, K. (834) 112)

Periaqueductal Gray
Hypoxia; Hypercapnia; In vitro (Kramer, J.M. (835) 197)

Periaqueductal grey
Nociceptive response latency; Galanin; Opioid peptide; Naloxone (Wang, D. (834) 152)

Pericytes
Periendothelial cells; Brain parenchyma vessels; Mouse; Aminopeptidases N and A; Angiotensin (Alliot, F. (830) 101)

Periendothelial cells
Pericytes; Brain parenchyma vessels; Mouse; Aminopeptidases N and A; Angiotensin (Alliot, F. (830) 101)

Perifornical area
Discrimination; Morphine; Naloxone; Paraventricular nucleus (Cleary, J.P. (847) 26)

Periglomerular cell
Glucose-6-phosphate dehydrogenase; Rat brain; Olfactory bulb; Histochemistry; Electron microscopy (Ninfali, P. (819) 150)

Periinfarct depolarization
Fastigial cerebellar nucleus; Spreading depression; Neuroprotection; Preconditioning; Cerebral focal ischemia (Golanov, E.V. (818) 304)

Perinatal anoxia
Ibotenic acid; Voltammetry; Locomotor activity; Medial prefrontal cortex; Schizophrenia (Brake, W.G. (831) 25)

Perinatal overnutrition
Overweight; Insulin; Hypothalamus; Galanin; Paraventricular hypothalamic nucleus (Plagemann, A. (818) 160)

Perineuronal net
Chondroitin sulphate proteoglycan; Extracellular matrix; Parvalbumin; Phosphacan; Rat cerebral cortex; WFA (Haunsø, A. (834) 219)

Periodontal ligament
Fos; Trigeminal subnucleus caudalis; Tooth movement (orthodontic); Morphine; Naloxone (Aihara, Y. (819) 48)

Nerve injury; S-100; Ruffini ending; Schwann cell; Regeneration; Immunohistochemistry (Atsumi, Y. (849) 187)

Peripheral nerve
MAP1B; Cytoskeleton; Plasticity; Regeneration; Motor neuron (Ramón-Cueto, A. (815) 213)

Serotonin; Motoneuron; Regeneration; Axotomy; Neurotrophin; Receptor; Sciatic nerve (Rende, M. (823) 234)

Retinal ganglion cell; Regeneration; Sprouting; Hamster (Lai, M.Y. (823) 241)

Ischemia; Neuroprotection; Rat; Hypothermia (Mitsui, Y. (827) 63)

Rat sciatic nerve; Nerve regeneration; Nerve grafting; Vascular endothelial growth factor; Nerve growth factor (Sondell, M. (846) 219)

Peripheral nerve graft
Axotomy; Conditioning lesion; Brain-derived neurotrophic factor; Neurotrophin-3; Nerve growth factor (Oudega, M. (818) 431)

Peripheral nerve injury: chronic constriction injury
Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; NMDA antagonist: MK-801 (Munglani, R. (822) 210)

Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Spinal cord; Pain: neuropathic; NMDA antagonist: MK-801 (Hudspith, M.J. (822) 220)

Peripheral nervous system
Neurite outgrowth; Myelin; Dorsal root ganglion; Regeneration; Central nervous system (Ng, W.P. (836) 49)

Perivascular glia
Dystrophin; Immunocytochemistry; Blood–brain barrier; Astrocyte (Jancsik, V. (831) 200)

Periventricular anteroventral third ventricle
N-methyl-D-aspartate receptor; Blood pressure; Heart rate (Whalen, E.J. (836) 210)

Periventricular leukomalacia
Neonatal rat; White matter injury; Cerebral hypoperfusion; Cerebral blood flow; Amyloid precursor protein (Uehara, H. (837) 213)

Peroxidation
Hypothyroidism; Thyroid hormones; Malondialdehyde; Free radicals; Protein modification (Chehade, J. (829) 201)

Peroxynitrite
Nitric oxide; Nitric oxide synthase; Amyotrophic lateral sclerosis; Superoxide dismutase; cGMP; Cerebral cortex; Nitrotyrosine (Aguila, M.C. (816) 241)

MPTP; 3-Nitrotyrosine; Parkinson's disease; Nitric oxide (Ferrante, R.J. (823) 177)

Methamphetamine; Dopamine; 3-Nitrotyrosine; Striatum; Oxidative stress (Imam, S.Z. (837) 15)

Nitrotyrosine; Brain slice; Hypoxia; NMDA (Ochiai-Kanai, R. (847) 59)

Persistent nociception
NMDA receptor; Non-NMDA receptor; Subcutaneous bee venom injection; Wide-dynamic-range neuron; Dorsal horn; Tissue injury (Chen, J. (844) 98)

Persistent pain
Formalin test; Gender-related difference; Mouse (Kim, S.J. (829) 185)

Pertussis toxin
G-protein; Presynaptic GABA-B receptor; In vitro slice; Intracellular recording (Phelan, K.D. (847) 308)

GH_3 cell; Muscarinic receptor; Ca^{2+} oscillation; GTP binding protein (Kushmerick, C. (851) 39)

PET
Glucose deprivation; Mean arterial pressure; Hypothalamus; Body temperature (Elman, I. (815) 243)

Petrosal ganglion
Acetylcholine; Arterial chemoreceptor; Carotid body; Dopamine; Sensory ganglion (Alcayaga, J. (831) 97)

Arterial chemoreceptor; Carotid body; Cyanide; Hypoxia; Sensory ganglion (Alcayaga, J. (845) 28)

Calbindin D-28k; Calcitonin-gene related peptide; Jugular ganglion; Nodose ganglion; Parvalbumin; TrkA; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

Petrosal ganglion neurons
Nitric oxide; Sodium nitroprusside; L-NAME; Acetylcholine; Carotid body chemoreceptors (Alcayaga, J. (825) 194)

PGE_2-induced hyperthermia
Global ischemia; Head (brain) cooling; Neural damage (Thornhill, J. (825) 36)

P-glycoprotein
Blood–brain barrier; Multidrug resistance (Golden, P.L. (819) 143)

Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; Selective serotonin reuptake inhibitor; Stereoselectivity; Transport (Rochat, B. (831) 229)

Phaclofen
Ventral tegmental area; Stimulation-induced locomotor response; Facilitation; Bicuculline; Muscimol; Contralateral effect (Trojniar, W. (842) 419)

Pharmacokinetics
Blood–brain barrier; AIDS; Adsorptive endocytosis; Efflux; Lymphatics (Cashion, M.F. (822) 26)

Dexfenfluramine; Fluorine; Magnetic resonance spectroscopy; Neurotoxicity; Obesity (Christensen, J.D. (834) 1)

Pharmacology
Xenopus oocyte; Glutamate; Electrophysiology; Concanavalin A; Cyclothiazide (Nijholt, I. (821) 374)

Phase-dependent reflex modulation
Human gait; Stumbling; Short-latency stretch reflex (Schillings, A.M. (816) 480)

***Phaseolus vulgaris* leucoagglutinin**
Anterior cingulate cortex; Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Phase shift
Circadian rhythm; Melatonin; Antagonist; Mouse (Weibel, L. (829) 160)

[$Phe^1\ \Psi(CH_2–NH)Gly^2$] nociceptin-(1-13)–$NH_2$
Nociceptin; Orphanin FQ; Microdialysis; Striatum; Acetylcholine (Itoh, K. (845) 242)

Phencyclidine
N-Methyl-D-aspartate; c-*fos*/FLI; Apoptosis; Striatum (Griffiths, M.R. (821) 177)

Remacemide; Desglycinyl remacemide; MK-801; Anticonvulsant; SKF-10,047 (Ahmed, M.S. (827) 46)

Phentolamine
c-Fos expression; Formalin test; Spinal dorsal horn; Descending inhibition; Cyproheptadine; Naloxone; Intrathecal (Liu, R.-J. (830) 183)

Phenylalanine
PC12 cells; DOPA synthesis; Tyrosine; Tyrosine hydroxylase (DePietro, F.R. (831) 72)

Phenylaminotetralin
Aminotetralin; Autoradiography; Catecholamine; Dopamine; Histamine; Sigma; Tyrosine hydroxylase (Booth, R.G. (837) 95)

Phenylethylamine
Cerebral blood flow; Monoamine oxidase; Autoradiography; Iodo-antipyrine; Mouse (Scremin, O.U. (824) 36)

Pheochromocytoma (PC12) cell
Ethanol; Calcium; Nicotinic receptor; Neuroprotection (Li, Y. (816) 225)

PHF
Alzheimer's disease; Tau; Glycation (Ko, L.-w. (830) 301)

Phoneutria nigriventer
Glutamate uptake; Synaptosome; Spider venom; Toxin (Mafra, R.A. (831) 297)

Phorbol ester
Oligodendrocyte; Intracellular Ca^{2+}; Process extension; Protein kinase C; Fura-2 (Yoo, A.S.J. (827) 19)

Glutamate transporter; Müller glia; Uptake regulation; GLAST; Transport modulation; Protein kinase C (González, M.I. (831) 140)

TRH; Glucocorticoid; Hypothalamus; *N*-Ethylmaleimide; AP-1; CREB (Luo, L.-G. (841) 189)

Phosphacan
Chondroitin sulphate proteoglycan; Extracellular matrix; Parvalbumin; Perineuronal net; Rat cerebral cortex; WFA (Haunsø, A. (834) 219)

Phosphatase
Hippocampal; Magnesium; Neuronal culture; Phosphorylation; Seizure (Blair, R.E. (851) 54)

Phosphatase 2A
Calcineurin; Ischemia; Hippocampus (Morioka, M. (828) 135)

Phosphatidylcholine
Diacylglycerol; Long chain acyl-CoA synthetase; Phospholipase; Nerve growth factor; PC12 cell (Li, J. (818) 252)

Phosphatidyl inositol hydrolysis
Group I; Metabotropic glutamate; In vivo; DHPG; CHPG (Johnson, M.P. (821) 539)

Phosphatidylserine
Apoptosis; Membrane peroxidation; Phospholipid (Schor, N.F. (831) 125)

Phosphocreatine
Creatine; Hypoxia; Ischemia; Anoxic depolarization; Protection; Neuronal damage (Balestrino, M. (816) 124)

Phosphodiesterase inhibitor
Microglia; Cytokine; Multiple sclerosis; Astrocyte; TNF (Suzumura, A. (837) 203)

Phosphoinositide
Dopamine D_1-like receptor; Signal transduction; Phospholipase-C; CDP–diacylglycerol; Inositol phosphate (Undie, A.S. (816) 286)

Phospholipase
Diacylglycerol; Phosphatidylcholine; Long chain acyl-CoA synthetase; Nerve growth factor; PC12 cell (Li, J. (818) 252)

Phospholipase A_2
RSK; Sos; Shc; Grb2; MAP kinase; Post-synaptic density (Suzuki, T. (840) 36)

Volume regulation; Taurine; Glutamate; Protein kinase C (Estevez, A.Y. (844) 1)

Melittin; Amino acid; Free fatty acid; Glutamate; Arachidonic acid; Cerebral cortex (Phillis, J.W. (847) 270)

Phospholipase-C
Dopamine D_1-like receptor; Signal transduction; Phosphoinositide; CDP–diacylglycerol; Inositol phosphate (Undie, A.S. (816) 286)

Phospholipase C
Opioid receptor; G protein; Cytosolic Ca^{2+}; Concentration; Manganese entry (Song, S.-L. (818) 316)

Phospholipase D
Astrocyte; Noradrenaline; α_1-Receptor; Cell proliferation (Kötter, K. (830) 138)

Phospholipid
Lysophospholipid acyltransferase; Lysophospholipase; Glycerophosphodiesterase; Bipolar affective disorder (Ross, B.M. (821) 407)

Cytidine; Choline; Arachidonic acid (Knapp, S. (822) 52)

Apoptosis; Membrane peroxidation; Phosphatidylserine (Schor, N.F. (831) 125)

Phosphorus-31 magnetic resonance spectroscopy
Brain energy metabolism; Creatine phosphate; Intracellular pH; Membrane phospholipid; Photic stimulation (Murashita, J. (818) 72)

Phosphorylated tau
Anti-phosphorylated tau antibody; Age-related change; Facial nucleus; Lateral cerebellar nucleus; Groggy rat (Takeuchi, I.K. (831) 292)

Phosphorylation
Growth factor; mRNA; Postnatal; Vitamin K-dependent; Mitogen (Prieto, A.L. (816) 646)

Cerebral ischemia; CREB; Signal transduction (Tanaka, K. (818) 520)

Ion channel; Second messenger; Whole-cell voltage-clamp (Vargas, G. (828) 169)

Kainic acid; c-Jun; Cyclooxygenase; Neuronal apoptosis; Oxidative stress (Matsuoka, Y. (836) 213)

Tau; SY5Y human neuroblastoma cell; Microtubule binding; Differentiation (Haque, N. (838) 69)

Ca(2 +)-calmodulin-dependent protein kinase; Nitric-oxide synthase; Signal transduction; Lipopolysaccharide; NF-kappa B; CREB (Mirzoeva, S. (844) 126)

Hippocampal; Magnesium; Neuronal culture; Phosphatase; Seizure (Blair, R.E. (851) 54)

Photic entrainment
Suprachiasmatic nucleus; Circadian rhythm; Extraocular light perception; Cryptochrome; Visual system (Meijer, J.H. (831) 337)

Photic stimulation
Phosphorus-31 magnetic resonance spectroscopy; Brain energy metabolism; Creatine phosphate; Intracellular pH; Membrane phospholipid (Murashita, J. (818) 72)

Photoperiod
Circadian rhythm; Entrainment; Melatonin; Cortisol; Human (Vondrašová-Jelínková, D. (816) 249)

Siberian hamster; Spinal nucleus of the bulbocavernosus; Neuromuscular junctions; Sexual dimorphism (Hegstrom, C.D. (819) 83)

Intergeniculate leaflet; Suprachiasmatic nucleus; Fos protein; NPY; Syrian hamster (Jacob, N. (828) 83)

Immediate early gene; Bird song; ZENK (Duffy, D.L. (844) 78)

Photoreception
Melatonin; Pineal; Blindness (Jagota, A. (825) 95)

Photoreceptor
Classical conditioning; Calcium-induced calcium release; Ryanodine receptor; Associative learning; Light adaptation (Blackwell, K.T. (822) 114)

Photoreceptor cell
Apoptosis; Microglia; Müller cell; Lactate dehydrogenase; Necrosis; Nick-end labeling; Retinal degeneration (Roque, R.S. (836) 110)

Photoresponsiveness
Melatonin receptor; Individual variation; Seasonal breeding; Pars tuberalis; Suprachiasmatic nucleus; Paraventricular nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Photothrombosis
Cerebral ischemia, focal; Reperfusion; Penumbra; Evolution of ischemia; Rat (Hu, X.L. (849) 175)

Phrenic nerve
Laryngeal nerve; Respiratory regulation; Sudden infant death syndrome; Spectral analysis; Development (Kocsis, B. (818) 180)

Physostigmine
Ketamine; Medial prefrontal cortex; Noradrenaline; Rat (Kubota, T. (840) 175)

Physostigmine salicylate
N-tert-Butyl-α-phenylnitrone; Diisopropylphosphorofluoridate; Pilocarpine hydrochloride; Kainic acid; Seizures; Rat (Zivin, M. (850) 63)

Picrotoxin
Acoustic startle response; GABA; Prepulse inhibition; Rat; Schizophrenia; Sensorimotor gating; Superior colliculus (Fendt, M. (833) 81)

Muscimol; Rat (Hatfield, T. (835) 340)

Pig
Spreading cortical depression; Headache; Migraine; Magnetoencephalography; Electroencephalography; Electrocorticography; Swine (Bowyer, S.M. (843) 79)

Pigeon
Circadian rhythm; Melatonin; Dopamine; Retina; Microdialysis (Adachi, A. (815) 435)

Piglet
Development; Hypercapnia; c-*fos*; Nucleus of the solitary tract; Area postrema (Sica, A.L. (837) 106)

Piglets
Control of breathing; Hypoxia; Neonate (St.-John, W.M. (819) 147)

Pilocarpine hydrochloride
N-tert-Butyl-α-phenylnitrone; Diisopropylphosphorofluoridate; Physostigmine salicylate; Kainic acid; Seizures; Rat (Zivin, M. (850) 63)

Pineal
Melatonin; Blindness; Photoreception (Jagota, A. (825) 95)

Pineal gland
$PACAP_{38}$; $PACAP_{27}$; VIP; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Chick (Nowak, J.Z. (830) 195)

Chicken; Melatonin; Hydroxyindole-*O*-methyltransferase; Circadian; Cyclic AMP (Grechez-Cassiau, A. (835) 97)

Synapse; Immunocytochemistry; Peptide; Innervation; Tree shrew (*Tupaia glis*) (Kado, M. (842) 359)

Pinealocyte
Amino acid; Double-labeling; Vimentin; Synaptic-like microvesicle; Paracrine communication (Pabst, H. (838) 60)

L-Glutamate; Hydroxyindole-*O*-methyltransferase; Serotonin-*N*-acetyltransferase; Melatonin (Ishio, S. (850) 73)

Piriform cortex
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Potentiation; Late component; Olfactory cortex; Olfactory bulb; Lateral olfactory tract; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

Pituitary
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Chronic stress; Adrenalectomy; HPA axis; Hypothalamus (Martí, O. (821) 1)

Immunohistochemistry; FMRFamide; Ontogeny; Basophilic invasion; *Tupaia belangeri* (Scandentia) (Malz, C.R. (834) 83)

Rat; Cannabinoid; Vasoactive intestinal peptide (VIP); Prolactin; CAMP; Lactotroph; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Angiotensin II; Expression profiling; Estrogen; Water intake; Subfornical organ (Kisley, L.R. (844) 34)

Pituitary cell
A_1 adenosine receptor; Receptor regulation; Agonist; Antagonist; Epidermal growth factor (Navarro, A. (816) 47)

Pituitary gland
D-Aspartate; Retina; Prolactin; Luteinizing hormone; Immunohistochemistry (Lee, J.-A. (838) 193)

PK11195
Melatonin; Opiate tolerance; Opiate dependence; Flumazenil (Raghavendra, V. (834) 178)

PKC
Suprachiasmatic; Hamster; *Arvicanthis*; Circadian; Vasopressin; Signal transduction (Bult, A. (816) 190)

Tyrosine phosphorylation; Quisqualic acid; Ca^{+2} (Alderson, R.F. (818) 236)

PKCγ
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Place navigation
Carbon monoxide poisoning; Hypoxic depolarization; Spreading depression; Hippocampus; Neuroprotective effect (Koroleva, V.I. (816) 618)

Placental lactogen
Prolactin; Negative feedback; Pregnancy; β-endorphin; Fos; Rhythm; Mediobasal hypothalamus; Rat (Lee, Y. (837) 152)

Planarian
Arylalkylamine *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Melatonin (*N*-acetyl-5-methoxytryptamine); Circadian rhythm (Itoh, M.T. (830) 165)

Planorbarius corneus
Endogenous morphine; Invertebrate nervous system; Invertebrate immune system; Trauma response; High performance liquid chromatography; Immunohistochemistry; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

Plasma catecholamine
Rostral ventrolateral medulla; Muscimol; Bicuculline; Sympathetic nerve activity; Arterial blood pressure (Natarajan, M. (827) 169)

Plasticity
MAP1B; Peripheral nerve; Cytoskeleton; Regeneration; Motor neuron (Ramón-Cueto, A. (815) 213)

Cerebral ischemia; Cortical lesion; GABA receptor (Neumann-Haefelin, T. (816) 234)

Deafferentation; Nitric oxide; Somatosensory system; Cerebral glucose utilization (Won Sohn, N. (816) 396)

Respiratory control; Hypoxia (Bach, K.B. (817) 25)

Neuropathic pain; Chronic constriction injury; Allodynia; Transganglionic axonal tracer (Nakamura, S.-i. (818) 285)

Positron emission tomography; Blindness; Visual cortex; Sensory substitution (De Volder, A.G. (826) 128)

Oxytocin; Vasopressin; Immunocytochemistry; Microtubule; Cytoskeleton; Shape conversion; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

Cerebellum; Learning; Deep nuclei; Inhibition (Freeman Jr., J.H. (833) 225)

Cochlear nuclei; Habituation; Learning; Memory (Kandiel, A. (839) 292)

Nestin; Traumatic brain injury; Astrocyte; Microglia (Sahin Kaya, S. (840) 153)

Hippocampus; Inhibition; Modulation; Vigilance state; Dentate granule cell (Bronzino, J.D. (849) 45)

Tetanic stimulation; Brain slice; Field potential; Dark-rearing (Atapour, N. (851) 148)

Platelet-activating factor
Human microglia; Ca^{2+} fluorescence microscopy; SERCA; Cyclopiazonic acid; Store-operated Ca^{2+} entry (Wang, X. (842) 159)

Play period
Juvenile isolation; Social play behavior; Social interaction test; Autoradiography; Opioid receptor mapping; [^{3}H]-Diprenorphine (Van den Berg, C.L. (830) 16)

2-PMPA
Methotrexate hexaglutamate; NAALADase; Neurotoxicity; In vitro (Thomas, A.G. (843) 48)

Poly(ADP-ribose) polymerase
Focal cerebral ischemia; Middle cerebral artery occlusion; Neuroprotection; Immunohistochemistry; Laser Doppler flowmetry; Rat (Takahashi, K. (829) 46)

Poly(ADP–ribose) polymerase
Immunocytochemistry; Motor neuron (Cookson, M.R. (834) 182)

Poly(ADP-ribose) polymerase
Deltamethrin; Neurotoxicity; Nitric oxide synthase (Wu, A. (850) 249)

Polyamine
Excitotoxicity; NMDA receptor; Ototoxicity; Aminoglycoside; Neomycin (Segal, J.A. (815) 270)

N-Acetylpolyamine; γ-Aminobutyric acid; Kindling; Seizure; Pentylenetetrazol (Hayashi, Y. (828) 184)

Polychlorinated biphenyl
Long-term potentiation; Neurotoxicity; Synaptic plasticity; Hippocampus (Gilbert, M.E. (850) 87)

Polydipsic inbred mouse
Hot-plate test; Nociception; Opioid (Kamikawa, H. (846) 171)

Poly-L-lysine
Focal cerebral ischemia; Animal model; Image-analysis; Mouse (Belayev, L. (833) 181)

Polymerase chain reaction
Heart; Kidney; Liver; Intestine; Spleen; Inflammation; Neuron (Yasojima, K. (830) 226)

Hippocampus; Entorhinal cortex; Midtemporal gyrus; Midfrontal gyrus; Cerebellum (Yasojima, K. (831) 301)

Heart; Kidney; Liver; Myocardial infarction; Spleen; Inflammation; Neuron (Yasojima, K. (833) 297)

Polymerization
Transglutaminase; Neurofibrillary tangle; Paired helical filament; Cross-linking (Norlund, M.A. (851) 154)

Polysialylation
Methylmercury; Sialyltransferase; Cerebellum; Neural cell adhesion molecule; Development (Dey, P.M. (845) 139)

***n* − 3 Polyunsaturated fat**
Hypothalamus; Obesity; Saturated fat; *n* − 6 Polyunsaturated fat (Wang, H. (843) 184)

***n* − 6 Polyunsaturated fat**
Hypothalamus; Obesity; Saturated fat; *n* − 3 Polyunsaturated fat (Wang, H. (843) 184)

Pons
Sympathetic discharge; A5; Noradrenergic neuron; Glutamate; Angiotensin II (Maiorov, D.N. (815) 227)

Carotid rete; Hypothalamus; Selective brain cooling; Ultradian wake–sleep cycle; Systemic brain cooling (Azzaroni, A. (844) 206)

Pontine reticular formation
Audiogenic seizure; Superior colliculus; Seizure network; Genetically epilepsy-prone rat; Inferior colliculus (Faingold, C. (821) 392)

Population spike
fEPSP; CA1; Cyclohexyladenosine; 8-cyclopentyltheophylline (Fowler, J.C. (815) 414)

Porcine
Cell culture; Blood–brain barrier; Transport; Retinoid; Sucrose (Franke, H. (818) 65)

Positron emission tomography
Blindness; Visual cortex; Plasticity; Sensory substitution (De Volder, A.G. (826) 128)

Scopolamine; FK960; HA-966; Regional cerebral blood flow; Somatosensory stimulation; Monkey (Tsukada, H. (832) 118)

Cholinergic neuron; Nucleus basalis magnocellularis; Cerebral metabolic rate of glucose (Katsumi, Y. (837) 75)

Dopamine; Dopamine D_2 receptor; [^{11}C]Raclopride; Microdialysis; Monkey brain (Tsukada, H. (841) 160)

Isoflurane; Dopamine transporter; Dopamine D_2 receptor; Microdialysis; Monkey brain (Tsukada, H. (849) 85)

Post discharge
Wide dynamic range neuron; LTP; Sciatic nerve block; Spinalization; Pain (Svendsen, F. (816) 487)

Postmortem
Monoamine oxidase A; Depression; Human; Locus coeruleus; Raphe (Ordway, G.A. (847) 71)

Postmortem human brain
Cyclic AMP response element binding protein; Dementia of the Alzheimer type; Immunoblotting; Cyclic AMP signal transduction system (Yamamoto-Sasaki, M. (824) 300)

Nitric oxide synthase; [^{3}H]L-Citrulline formation assay; Western blot analysis; Arginine; Citrulline (Blum-Degen, D. (834) 128)

Postnatal
Growth factor; mRNA; Phosphorylation; Vitamin K-dependent; Mitogen (Prieto, A.L. (816) 646)

Neuron; Glia; mRNA; Fetal (Devaskar, S.U. (823) 113)

Postnatal ethanol treatment
γ-Aminobutyric $acid_A$ receptor; Neuronal development; Cerebellum; Purkinje neuron; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (832) 124)

Postrema
Dexfenfluramine; Amylin (Rowland, N.E. (820) 86)

Post-rotatory nystagmus
Glucocorticoid receptor; RU38486; Osmotic pump; Guinea pig (Shimogori, H. (851) 258)

Postsynaptic
Carotid body; Hypoxia; Respiratory chain; Low calcium and high magnesium; Presynaptic (Rozanov, C. (833) 101)

Postsynaptic density
Heat shock protein; Molecular chaperone; Synapse; Synaptic plasticity; Immunohistochemistry (Suzuki, T. (816) 99)

Post-synaptic density
RSK; Sos; Phospholipase A_2; Shc; Grb2; MAP kinase (Suzuki, T. (840) 36)

Posture
Inducible transcription factor; Antisense phosphorothioate oligonucleotides; Prepositus hypoglossus; Movement; Labyrinthectomy (Kaufman, G.D. (817) 246)

Human; Sensory interaction; Vestibular; Somatosensory; Galvanic stimulation (Hlavacka, F. (821) 8)

Load; Insect; Mechanoreceptor (Zill ,, S.N. (822) 271)

Potassium
Dopamine; Intracranial microdialysis; Fischer 344 rat; D-Amphetamine; Basal level; Aging; Striatum (Gerhardt, G.A. (816) 68)

Hypothermia; Hyperthermia; Ischemia; Anoxia; Sodium; ATP (Amorim, P. (844) 143)

Potassium ATP channel
Antisense; 6-Hydroxydopamine; Kir6.2; Globus pallidus; Apomorphine (Lamensdorf, I. (818) 275)

Potassium channel
4-Aminopyridine; Global ischemia; Synaptic transmission; Electrophysiology (Zhang, L. (832) 31)

Nitric oxide; Olfaction; *Caudiverbera*; *Xenopus* (Schmachtenberg, O. (837) 301)

Potassium channel pharmacology
Neuron-glial interaction; Acetylcholine release; Calcium influx; Sodium influx; Input resistance (Müller, M. (826) 63)

Potassium channels
Patch clamp; Tract tracing; Sodium channels; Neuronal cell culture (Johnson, R.F. (817) 226)

Potassium current
Osmotic effect; Hyponatremia; Intracellular calcium; Calcium current; Cell volume (Somjen, G.G. (851) 189)

Potassium currents
Hypoxia; Hippocampal neurons; Oxygen measurements; Hydrosulphite (Gebhardt, C. (837) 270)

Potentiation
Transcranial electrical stimulation; Limoge's current; Righting reflex; Droperidol (Robert, C. (822) 132)

Late component; Olfactory cortex; Piriform cortex; Olfactory bulb; Lateral olfactory tract; Cortical association fiber; Rat (Stripling, J.S. (841) 27)

P1 potential
Auditory evoked potential; Startle; Prepulse inhibition; Sensory gating; Pedunculopontine nucleus (Miyazato, H. (822) 60)

P/Q-type Ca^{2+} channel
ω-Agatoxin IVA (ω-Aga-IVA); α-Eudesmol; Synaptosome; Cerebellar Purkinje cell; NG108-15 cell (Asakura, K. (823) 169)

Praying mantis
Immunohistochemistry; Serotonin; Insect; Optic lobe; Lamina (Leitinger, G. (823) 11)

Prearcuate
Superior temporal gyrus; Principal sulcus; Orbitofrontal (Hackett, T.A. (817) 45)

Pre-Bötzinger complex
Bötzinger complex; cVRG; rVRG; Cardiopulmonary receptor; Carotid chemoreceptor; Respiratory neuron (Chitravanshi, V.C. (821) 443)

Respiratory control; Superior laryngeal nerve; Cat; Afferent integration (Anderson, M.K. (831) 306)

Precentral medial cortex
Anterior cingulate cortex; Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Preconditioning
Fastigial cerebellar nucleus; Spreading depression; Neuroprotection; Cerebral focal ischemia; Periinfarct depolarization (Golanov, E.V. (818) 304)

Pre-conditioning
Focal ischemia; ATP-dependent potassium channel; Cerebellar fastigial nucleus; Stimulation; Glibenclamide (Golanov, E.V. (842) 496)

Precursor processing
Proprotein convertase; Subtilase; Neuropeptide; SKI-1/S_1P; Cholesterol and fatty acid metabolism (Seidah, N.G. (848) 45)

Predator
Stress; Corticosterone; Norepinephrine; Dopamine; Serotonin; Limbic excitability; Kindling (McIntyre, D.C. (840) 65)

Prediction
Hippocampal slice; Epilepsy models; Correlation dimension; Guinea pigs (Widman, G. (836) 156)

Preference
Orphanin FQ; Nociceptin; Opioid; Morphine; Reward (Murphy, N.P. (832) 168)

Prefrontal cortex
Noradrenaline; Locus coeruleus; GABA; Glutamate; Microdialysis (Kawahara, Y. (823) 42)

Amphetamine; Sensitization; Gamma-aminobutyric acid; $GABA_A$ receptor; Locomotion (Gruen, R.J. (825) 180)

Cocaine; I.V. self-administration; Tissue plasminogen activator; Synaptic plasticity; Transgenic mice (Ripley, T.L. (826) 117)

Schizophrenia; Ketamine; Amphetamine; MK-801; NMDA; Animal model; Limbic system; Hippocampus (Duncan, G.E. (843) 171)

Pregnancy
Maternal behavior; Progesterone; Medial preoptic area; Medial hypothalamus; RU 486; Lactation (Numan, M. (830) 358)

Prolactin; Placental lactogen; Negative feedback; β-endorphin; Fos; Rhythm; Mediobasal hypothalamus; Rat (Lee, Y. (837) 152)

NMDA; Glutamate; Rat; Seizure; Epilepsy (Standley, C.A. (844) 10)

Pregnanolone
Neurosteroid; $GABA_A$ receptor; Dehydroepiandrosterone sulfate; Allopregnanolone (Park-Chung, M. (830) 72)

Pregnenolone biosynthesis
PBR; DBI fragment; Wallerian degeneration; Remyelination (Lacor, P. (815) 70)

Pregnenolone sulfate
Neurosteroid; NMDA receptor; $GABA_A$ receptor; Seizure (Kokate, T.G. (831) 119)

Prelabeling
Medial superior olive; Superior paraolivary nucleus; Intracellular labeling; Tissue slice; Gerbil (Kuwabara, N. (846) 59)

Prelimbic cortex
Anterior cingulate cortex; Infralimbic cortex; Dorsal peduncular cortex; Retrosplenial cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Prenatal
Cocaine; Habenula; Neurotoxicity; Degeneration (Murphy, C.A. (851) 175)

Prenatal exposure
Cocaine; Dopamine; Dopamine transporter; Microdialysis (Du, W. (836) 194)

Carbon monoxide; Working memory; Habituation; Rat offspring (Giustino, A. (844) 201)

Preoptic area
Reptile; Sex-reversed; Ventromedial hypothalamus (Wennstrom, K.L. (838) 104)

Bed nucleus of the stria terminalis; In situ hybridization; Avian brain; Male sexual behavior; Neuropeptide (Panzica, G. (850) 55)

Prepositus hypoglossus
Inducible transcription factor; Antisense phosphorothioate oligonucleotides; Posture; Movement; Labyrinthectomy (Kaufman, G.D. (817) 246)

Prepulse inhibition
Acoustic startle response; Fear-potentiated startle; Latent inhibition; Nucleus basalis magnocellularis; Schizophrenia (Schauz, C. (815) 98)

Auditory evoked potential; P1 potential; Startle; Sensory gating; Pedunculopontine nucleus (Miyazato, H. (822) 60)

Isolation rearing; Rat; Locomotor activity; Startle; Synaptophysin; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Acoustic startle response; GABA; Picrotoxin; Rat; Schizophrenia; Sensorimotor gating; Superior colliculus (Fendt, M. (833) 81)

Ventral pallidum; Amygdala; Inferior colliculus; Electrical stimulation; Acoustic startle; Interstimulus interval (Li, L. (836) 164)

Prepyriform cortex
Anesthetic; Dentate gyrus; GABA; Hippocampus; Olfactory cortex; Perforant path; Anterior piriform cortex; Propofol; Withdrawal rebound (Hasan, Z.A. (818) 51)

Presenilin-1
Intronic polymorphism; Alzheimer's disease (Liao, A. (816) 295)

Pressor response
Bradycardia; Depressor response; Tachycardia (Bhatnagar, T. (822) 192)

Angiotensin (ANG) I; Angiotensin (ANG) II; Angiotensin-converting enzyme (ACE); Converting enzyme inhibitor (CEI); Circumventricular organ; Drinking; Subfornical organ (Robinson, M.M. (842) 55)

Corticotropin releasing factor; Substance P; Nucleus amygdaloideus centralis; Nucleus ventromedialis; Emotion; Stress (Wu, J.-S. (842) 392)

Presupplementary motor area
Basal ganglia; Striatum; Subthalamic nucleus; Supplementary motor area; Motor control (Inase, M. (833) 191)

Presynaptic
Carotid body; Hypoxia; Respiratory chain; Low calcium and high magnesium; Postsynaptic (Rozanov, C. (833) 101)

Presynaptic blocker
Neurotransmitter; Intracerebral microdialysis; Ca^{2+}-dependent; High K^+ (Shi, Y.-L. (850) 173)

Presynaptic D_2 receptor
Striatum; Dopamine release; L-DOPA; Quinpirole; Microdialysis (Maeda, T. (817) 185)

Presynaptic GABA-B receptor
G-protein; In vitro slice; Intracellular recording; Pertussis toxin (Phelan, K.D. (847) 308)

Presynaptic inhibition
Locomotion; Reflex; Strychnine; Development (Jiang, Z. (816) 493)

Human; H-reflex; Reciprocal inhibition; Long-latency inhibition; Voluntary muscle contraction (Leonard, C.T. (817) 1)

Muscle pain; Group I pathway; Motor control (Rossi, A. (818) 12)

Antidromic discharge; Dorsal root afferent; Cat; Locomotion (Beloozerova, I. (846) 87)

Calcium channel; $GABA_B$ receptor; Lamprey; Sensory transmission (Bussières, N. (847) 175)

Primary afferent
Neuroregeneration; Nerve growth factor; Capsaicin; Calcitonin gene-related peptide; Immunohistochemistry (Schicho, R. (815) 60)

Primary afferent depolarization
Dorsal root reflex; Locomotion; Spinal cord; Cat (Gossard, J.-P. (825) 132)

Primary afferents
Sensory neurons; Immunohistochemistry; Nociception (Carlton, S.M. (820) 63)

Primary culture
Connexin; Gap junction; Rat carotid body; cAMP; Cell–cell communication (Abudara, V. (849) 25)

Primary ending
Isolated muscle spindle; Secondary ending; Temperature coefficient; Ramp-and-hold stretch; Adaptation (Fischer, M. (840) 1)

Primary generalized epilepsy
Absence seizure; Brainstem auditory evoked potential; Simultaneous analysis; Lower brainstem; Centrencephalic system (Kohsaka, S. (837) 277)

GLAST; Knockout mice; Kindling; Pentylenetetrazole; Secondary generalized epilepsy (Watanabe, T. (845) 92)

Primary sensorimotor cortex (M1–S1)
Magnetoencephalography; Finger movement; Human cerebral cortex; Hemispheric functional asymmetry (Babiloni, C. (827) 234)

Primary sensory neuron
Apoptosis; TUNEL; Trigeminal ganglion; Capsaicin; Electron microscopy (Sugimoto, T. (818) 147)

Primate
MAO B inhibitor; Selegiline; In vivo microdialysis; Dopamine; Striatum (Kaseda, S. (815) 44)

Tissue segmentation; Brain aging (Andersen, A.H. (829) 90)

Immediate-early genes; c-*fos*; Subthalamic nucleus; Neuroleptic; Dopamine (Wirtshafter, D. (835) 154)

Priming
D2 dopamine receptor; NMDA glutamate receptor; c-*Fos*; Apomorphine (Pollack, A.E. (827) 160)

Principal sulcus
Superior temporal gyrus; Prearcuate; Orbitofrontal (Hackett, T.A. (817) 45)

PRKO mouse
Non-genomic; Progesterone; Mouse; Lordosis; Neurosteroids (Frye, C.A. (815) 259)

Process extension
Oligodendrocyte; Intracellular Ca^{2+}; Phorbol ester; Protein kinase C; Fura-2 (Yoo, A.S.J. (827) 19)

Processing
Senile plaque; Metabolism (Arai, T. (823) 202)

Chromogranin; GAIPIRRH; 5-Hydroxytryptamine-moduline; Genomic imprinting (Lovisetti-Scamihorn, P. (829) 99)

Proctolin
Central pattern generators; Cotransmitter; Crustacean cardioactive peptide; Lobster (Marder, E. (848) 35)

D-Pro^2-endomorphin-2
Endomorphin-2; Ala-pyrrolidonyl-2-nitrile; Dipeptidyl peptidase IV; Naltrexone; Pain; Analgesia (Shane, R. (815) 278)

Proenkephalin
Morphine; Self-administration; Striatum; Nucleus accumbens; Lewis; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Proenkephalin mRNA
In situ hybridization; Immunocytochemistry; Organogenesis; Mesoderm; Ectoderm; Endoderm; ζ Opioid receptor (Zagon, I.S. (839) 313)

Profilin
Developing chick brain; G-actin; β-thymosin; ADF; Cofilin (Devineni, N. (823) 129)

Progenitor
Retina; Rod photoreceptor; Stem cell; Differentiation; Electrophysiology (Ahmad, I. (831) 1)

Progesterone
Non-genomic; Mouse; Lordosis; PRKO mouse; Neurosteroids (Frye, C.A. (815) 259)

3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Gene expression; Enzymatic activity; Quail brain; Reverse transcription-polymerase chain reaction (Ukena, K. (818) 536)

5α pregnan-3α-ol-20-one (3α,5α-THP); Stress; Benzodiazepine; Estrogen (Wilson, M.A. (824) 136)

Maternal behavior; Medial preoptic area; Medial hypothalamus; RU 486; Lactation; Pregnancy (Numan, M. (830) 358)

Estradiol; Corticosterone; Threshold; Kindling (Edwards, H.E. (838) 136)

Estrogen; Seizure; Flurothyl; Hippocampus; Entorhinal cortex (Velíšek, L. (842) 132)

Progesterone receptor
Neuroactive steroid; Adenylyl cyclase; Neocortex; Female rat; Protein kinase A (Al-Dahan, M.I. (824) 258)

Estrogen receptor; In situ hybridization histochemistry; Lateral geniculate nucleus (Horvath, T.L. (844) 196)

Projection neuron
Nucleus tractus solitarius; Double-labeling; Fluorescent microsphere; Taste (Gill, C.F. (821) 251)

Prolactin
A1 and A2 noradrenergic neurons; Nucleus of the solitary tract; Reticular formation; Prolactin-releasing peptide; Tyrosine hydroxylase (Chen, C.-T. (822) 276)

Paradoxical sleep; Slow-wave sleep; Cerebral temperature; Constant darkness; Constant light; Melatonin (Lobo, L.L. (835) 282)

Receptor; Area postrema; Rabbit (Mangurian, L.P. (836) 218)

Placental lactogen; Negative feedback; Pregnancy; β-endorphin; Fos; Rhythm; Mediobasal hypothalamus; Rat (Lee, Y. (837) 152)

D-Aspartate; Pituitary gland; Retina; Luteinizing hormone; Immunohistochemistry (Lee, J.-A. (838) 193)

Rat; Pituitary; Cannabinoid; Vasoactive intestinal peptide (VIP); CAMP; Lactotroph; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Prolactin-releasing peptide
A1 and A2 noradrenergic neurons; Nucleus of the solitary tract; Reticular formation; Prolactin; Tyrosine hydroxylase (Chen, C.-T. (822) 276)

Proliferation
Globoid cell leukodystrophy; Demyelination; Forskolin; Galactocerebroside; Differentiation (Yamada, H. (816) 390)

Calcium; Glioblastoma; Patch-clamp (Chattopadhyay, N. (851) 116)

Pronociception
Opioid; Pain facilitation; Antinociception; Anti-analgesia; Stress; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

Proopiomelanocortin
Hypothalamus; Leptin receptor; Neuropeptide Y; Food intake (Baskin, D.G. (828) 154)

Neuropeptide Y; Diet-induced obesity; Hypothalamus; High-fat diet (Bergen, H.T. (851) 198)

Propidium iodide
Kainic acid; AMPA; NBQX; Neocortex; Striatum (Kristensen, B.W. (841) 143)

Propofol
Anesthetic; Dentate gyrus; GABA; Hippocampus; Olfactory cortex; Perforant path; Anterior piriform cortex; Prepyriform cortex; Withdrawal rebound (Hasan, Z.A. (818) 51)

Loss of righting reflex; Diazepam; Diabetes; Benzodiazepine receptor (Ohsawa, M. (833) 282)

Proprioceptor
Dorsal root ganglion; Mesencephalic trigeminal tract nucleus; Parvalbumin; Peptide 19; S100 (Ichikawa, H. (821) 231)

Proprotein convertase
Subtilase; Neuropeptide; Precursor processing; SKI-1/S_1P; Cholesterol and fatty acid metabolism (Seidah, N.G. (848) 45)

Prostaglandin
Cyclooxygenase-2 inhibitor; Kainic acid-induced seizure; Hippocampus; TUNEL-positive neuronal death (Baik, E.J. (843) 118)

Prostaglandin E_2
Brain; Endothelial cell; Endotoxin; Fever; Neuroimmunomodulation (Li, S. (825) 86)

Protease
Neuroendocrine cell; Secretion; Proteolytic processing; Protein release; Tissue plasminogen activator; Storage granule; AtT20 cell (Santell, L. (816) 258)

Bleomycin hydrolase; Alzheimer's disease; Senile plaque; Immunohistochemistry (Namba, Y. (830) 200)

Protection
Creatine; Phosphocreatine; Hypoxia; Ischemia; Anoxic depolarization; Neuronal damage (Balestrino, M. (816) 124)

Protective action
Organotypic culture; Neomycin intoxication; Retinoic acid; Insulin; Epidermal growth factor; Transforming growth factors (Romand, R. (825) 46)

Protein expression
Circadian clock; Constant darkness; Immunohistochemistry; Glutamate receptor (Chambille, I. (833) 27)

Protein kinase
Acetylcholine receptor; Nootropic drug; Nefiracetam; PC12 cell; G protein (Oyaizu, M. (822) 72)

Age; Hippocampus; Senescence-accelerated mouse; Calcium pump; Calbindin (Armbrecht, H.J. (842) 287)

Protein kinase A
Progesterone receptor; Neuroactive steroid; Adenylyl cyclase; Neocortex; Female rat (Al-Dahan, M.I. (824) 258)

Adenylate cyclase; Cyclic AMP; Circadian; Rhythm; Suprachiasmatic (Lee, J.M. (835) 350)

Waglerin-1; GABA (γ-aminobutyric acid); Whole-cell current; Patch-clamp; Nucleus accumbens (Ye, J.-H. (837) 29)

Protein kinase C
Retina; Rod outer segment; Taurine uptake; Chelerythrine (Militante, J.D. (818) 368)

Axonal transport; Neurite growth; Ca^{2+}/calmodulin-dependent protein II kinase (Hiruma, H. (826) 135)

Oligodendrocyte; Intracellular Ca^{2+}; Phorbol ester; Process extension; Fura-2 (Yoo, A.S.J. (827) 19)

Ischemic preconditioning; Oxygen–glucose deprivation; Calcium; Mitogen-activated protein kinase; Cortical neuron (Tauskela, J.S. (827) 143)

DMXB; Calcium; Tyrosine protein kinase; α7 Nicotinic receptor (Li, Y. (830) 218)

Glutamate transporter; Müller glia; Uptake regulation; GLAST; Transport modulation; Phorbol ester (González, M.I. (831) 140)

Action potential; Bag cell neuron; Calcium; Neuroendocrine (Wayne, N.L. (834) 211)

Chelerthyrine chloride; Circadian; Rhythm; Suprachiasmatic (Schak, K.M. (840) 158)

Volume regulation; Taurine; Glutamate; Phospholipase A_2 (Estevez, A.Y. (844) 1)

Vestibular compensation; Cerebellum; Labyrinthectomy; Purkinje cell; Signal transduction protein (Balaban, C.D. (845) 97)

Ischemia; Hyperglycemia; Hypercapnia; Acidosis; Rat; Ca^{2+}/calmodulin kinase II (Katsura, K.-i. (849) 119)

Protein kinase M phosphorylation; Calpain; MAP kinase; Tau; Paired helical filaments; Alzheimer's disease; Signal transduction (Ekinci, F.J. (850) 207)

Protein kinase M phosphorylation
Protein kinase C; Calpain; MAP kinase; Tau; Paired helical filaments; Alzheimer's disease; Signal transduction (Ekinci, F.J. (850) 207)

Protein modification
Hypothyroidism; Thyroid hormones; Malondialdehyde; Free radicals; Peroxidation (Chehade, J. (829) 201)

Protein phosphorylation
Cytoskeleton; Microtubule; Sciatic nerve; Axotomy; Glial cell (Ma, D. (823) 141)

Astrocyte; Glial fibrillary acidic protein (GFAP); Vimentin; HSP27; Calcium (Gottfried, C. (833) 142)

Temporal lobe epilepsy; Human brain synaptosomes; B-50; Calcium; Neurotransmitter release (Hoogland, G. (837) 55)

Protein release
Neuroendocrine cell; Secretion; Proteolytic processing; Protease; Tissue plasminogen activator; Storage granule; AtT20 cell (Santell, L. (816) 258)

Protein synthesis
HSP27; Glucocorticoid; Stress; Heat shock; Cerebellum (Barr, C.S. (847) 9)

Spectrin; Protein turnover; Cytoskeletal assembly; Hippocampal neuron (Sangerman, J. (849) 128)

Protein turnover
Spectrin; Protein synthesis; Cytoskeletal assembly; Hippocampal neuron (Sangerman, J. (849) 128)

Protein tyrosine phosphorylation
PAF; Cerebral cortex (Calcerrada, M.C. (835) 275)

Proteolipid protein
Calcium; Oligodendrocyte; Apoptosis; Jimpy; Myelin; DM-20 protein; Fura-2 (Knapp, P.E. (847) 332)

Proteolysis
Secretogranin II; Secretoneurin; Secretion; Spleen; Perfusate (Liang, F. (818) 459)

Proteolytic processing
Neuroendocrine cell; Secretion; Protein release; Protease; Tissue plasminogen activator; Storage granule; AtT20 cell (Santell, L. (816) 258)

Proto-oncogene
Interneuron; Urinary bladder; Nociception (Birder, L.A. (834) 55)

Protruder
Hypoglossal; Retractor; Motoneuron; Intracellular; Substance P (Gatti, P.J. (834) 155)

PrP
β-amyloid; Human microglia; Calcium channel (Silei, V. (818) 168)

Pseudorabies virus
Suprachiasmatic nucleus; Circadian rhythm; Hypothalamus; Neuroanatomy (Leak, R.K. (819) 23)

Expiration; Reticular formation; Motoneuron; Respiration; Vestibular (Billig, I. (820) 31)

Transsynaptic transport; Tract-tracing; Retrograde labeling; Inferior olive; Cholera toxin subunit B (Chen, S. (838) 171)

Psychological stress
Memory; Corticosterone; Metyrapone; Serotonin; Rat (Liu, L. (821) 134)

Corticotropin-releasing hormone; Amygdala; Bed nucleus of the stria terminalis; Paraventricular nucleus (Makino, S. (850) 136)

Psychomotor behavior
Hippocampal CA1; Gamma wave; Medial septum; Temporal lobe seizure; Locomotion (Ma, J. (833) 51)

Psychomotor stimulant
Addiction; Drug abuse; Relapse; Medications development (Norman, A.B. (831) 165)

PTP
R-PTP; R-PTP-k; RPTPk; Transgene (Shen, P. (826) 157)

R-PTP
R-PTP-k; PTP; RPTPk; Transgene (Shen, P. (826) 157)

R-PTP-k
R-PTP; PTP; RPTPk; Transgene (Shen, P. (826) 157)

Puberty
Gonadotropin releasing hormone; LHRH; Immunocytochemistry (Richardson, H.N. (817) 232)

Pulsatile LH secretion
GnRH pulse generator; Glucose; Insulin; Hypoglycemia; Female rat (He, D. (820) 71)

Pulsatile secretion
Locus coeruleus; Luteinizing hormone; Ovariectomy (Anselmo-Franci, J.A. (833) 86)

Pulse generator
Ketamine; Anesthesia; Luteinizing hormone; Gonadotrophin-releasing hormone; Electrophysiology; Thermoregulation; Telemetry (Goubillon, M.-L. (841) 197)

Punishment
$GABA_A$; In situ hybridization; Anxiety; Behavior; Alprazolam (Liu, M. (882) 8)

Purine nucleoside phosphorylase
Respiratory inhibition; Astrocyte; BCX-34; Anaerobic glycolysis (Litsky, M.L. (821) 426)

Purines
Adenosine; Acetylcholine; Muscarinic; Paired-pulse interactions (Nikbakht, M.-R. (829) 193)

Purinoceptor
ATP; Rat cortical astrocyte; Stellation; Culture; Development (Abe, K. (850) 150)

Purkinje cell
Neurotrophin; Cerebellar culture; Synaptogenesis; Activity-dependent plasticity (Seil, F.J. (818) 561)

Cerebellum; Hereditary ataxia; Tyrosine hydroxylase; Immunohistochemistry (Sawada, K. (829) 107)

Calcium; Climbing fiber; Dendrite; Neuromodulator (Pisani, A. (831) 113)

Cerebellum; Ataxia; Tyrosine hydroxylase; *Dilute–lethal* mouse (Sawada, K. (844) 188)

Vestibular compensation; Protein kinase C; Cerebellum; Labyrinthectomy; Signal transduction protein (Balaban, C.D. (845) 97)

Purkinje neuron
Cerebellum; Alcohol; AMPA; Intracellular calcium; Culture (Netzeband, J.G. (826) 270)

Postnatal ethanol treatment; γ-Aminobutyric $acid_A$ receptor; Neuronal development; Cerebellum; Fetal alcohol syndrome; Patch-clamp electrophysiology (Hsiao, S.-H. (832) 124)

Push–pull superfusion
Nitric oxide (NO); Linsidomine; SNAP; SNOG; Sodium nitroprusside; L-NAME; 7-Nitroindazole (Kaehler, S.T. (835) 346)

Pyramidal Neuron
TNF-α; Immunoelectron Microscopy; Hippocampus; Glia (Tseng, M.T. (833) 121)

Pyramidal neuron
Chattering; Motor; Synchronization; Local circuit; Intracellular recording (Kitagawa, H. (842) 101)

Pyramidal tract neuron
Paired cortical stimulation; Cortical silent period; Intracortical inhibition (Shimizu, T. (834) 74)

Pyrrolopyrimidine
21-Aminosteroid; Antioxidant; Ischemia–reperfusion; Neuroprotection; Oxygen free radical (Schmid-Elsaesser, R. (816) 471)

PYY-(3-36)
NPY; Neuropeptide Y-(13-36); [Leu^{31},Pro^{34}]neuropeptide Y; N^G-monomethyl-L-arginine (L-NMMA); Nitric oxide (Bitran, M. (851) 87)

Q

Quail brain
3β-Hydroxysteroid dehydrogenase/Δ^5-Δ^4-isomerase; Gene expression; Enzymatic activity; Progesterone; Reverse transcription-polymerase chain reaction (Ukena, K. (818) 536)

Quanta
Transmitter release; *Torpedo* electrocyte; MEPP (Kriebel, M.E. (845) 185)

Quantitative autoradiography
D-Amphetamine; Behavioral sensitization; Glucocorticoid receptor; Ginkgo biloba; Hippocampus (Trovero, F. (818) 135)

Electroconvulsive shock; Brain protein synthesis; Methionine recycling (Koubi, D. (821) 111)

Quinolinic acid
Neurotoxicity; Nitric oxide; Enkephalinergic (Kalisch, B.E. (817) 151)

Quinpirole
Striatum; Dopamine release; Presynaptic D_2 receptor; L-DOPA; Microdialysis (Maeda, T. (817) 185)

Amphetamine; Dopamine receptor; Stereotypy; Binge; SKF 82958 (Kuczenski, R. (822) 164)

Quinuclidinyl benzilate
Vestibular periphery; Muscarinic receptor; Autoradiography; Hair cell (Drescher, D.G. (845) 199)

Quisqualic acid
Tyrosine phosphorylation; PKC; Ca^{+2} (Alderson, R.F. (818) 236)

R

Rabbit
Muscle spindle; Trigeminal system; Firing pattern; Classification; Halothane anesthesia (Kato, T. (833) 1)

Prolactin; Receptor; Area postrema (Mangurian, L.P. (836) 218)

Rabbit ontogenesis
Pain; Antinociception; Centromedian–parafascicular complex; Evoked potential; Brain rewarding stimulation (Butkevich, I.P. (834) 13)

Rabbit retina
NBQX; AII amacrine; DNQX; Excitatory amino acid receptor (Cohen, E.D. (831) 206)

Rabbits
Sleep; IGF-1; Growth hormone; GHRH; Somatostatin; Rats; EEG (Obál Jr., F. (818) 267)

Raclopride
Male sexual behavior; 8-OH-DPAT; Medial preoptic area; Dopamine; Serotonin; MPPI (Matuszewich, L. (820) 55)

Radial glia
Chick retina; Cyclic AMP; Neurotransmitter uptake (Gadea, A. (838) 200)

Radial maze
Working memory; 192 IgG-saporin; Cholinergic basal forebrain; Immunotoxin; Acetylcholine (Wrenn, C.C. (847) 284)

Radial maze learning
Y chromosome; Hippocampus; Mossy fiber; Mouse (Sluyter, F. (835) 68)

Radioimmunoassay
Orphanin FQ; Chronic morphine tolerance; Amygdala; Cerebroventricular perfusate; Periaqueductal gray (Yuan, L. (826) 330)

Neuropeptide Y; Corticotropin-releasing factor; Noda epileptic rat; In situ hybridization (Jinde, S. (833) 286)

Radioligand
Autoradiography; Receptor; *Tupaia belangeri*; Mapping; Distribution (Mijnster, M.J. (841) 101)

Raloxifene
Estrogen; Choline acetyltransferase activity; Hippocampus (Wu, X. (847) 98)

Ramp-and-hold stretch
Isolated muscle spindle; Primary ending; Secondary ending; Temperature coefficient; Adaptation (Fischer, M. (840) 1)

RAMPs
Subfornical organ; Electrophysiology; Drinking; Receptors; Thirst (Riediger, T. (837) 161)

Ramp stretch response
Muscle spindle Ia afferent; Sinusoidal response; Receptor current; Cat (Schäfer, S.S. (819) 89)

Rana pipiens
Retina; Amacrine cell; Immunocytochemistry; Dopamine; Tyrosine hydroxylase; Neurotransmitter (Kicliter, E. (816) 149)

Range of synaptic plasticity
Lead; Long-term depression; Hippocampal slice; Rat (Zhao, W.-F. (818) 153)

Raphé
Body temperature regulation; Skin blood flow; RVLM; RVMM; Renal nerve (Rathner, J.A. (834) 196)

Raphe
Dorsal column; Pain modulation; Electroanalgesia; Brainstem; Flexion reflexes (Saadé, N.E. (846) 72)

Monoamine oxidase A; Depression; Human; Locus coeruleus; Postmortem (Ordway, G.A. (847) 71)

Raphé–hippocampal system
In vivo microdialysis; 5-HT autoreceptors; 5-Hydroxytryptamine; Hippocampal formation; Vigilance state plasticity (Mokler, D.J. (838) 95)

Raphe nuclei
N-Methyl-D-aspartate; Dopamine; Clomipramine; Intracerebral dialysis (Pallotta, M. (823) 217)

Immunohistochemistry; Serotonin; Fos; Stress; Anxiety; Depression (Grahn, R.E. (826) 35)

Serotonin receptor; Suprachiasmatic nucleus; Intergeniculate leaflet; Lateral geniculate nucleus; Circadian rhythm; Aging (Duncan, M.J. (829) 39)

Rapid effect
Corticosterone; Rostral ventrolateral medulla; Extracellular recording; Microiontophoresis (Rong, W. (815) 51)

Ras
Neurofibromatosis; *NF1*; Astrocyte; Gliosis; Learning disability; Mouse; Neurofibromin (Rizvi, T.A. (816) 111)

Rat
Brain inflammation; Nonsteroidal anti-inflammatory drug (NSAID); Microglia; Alzheimer's disease; Lipopolysaccharide (Hauss-Wegrzyniak, B. (815) 36)

rTMS; Brain monoamine; β-adrenergic receptor; 5-HT_2 receptor (Ben-Shachar, D. (816) 78)

Cyclosporin A; FK506; Nitric oxide; iNOS; C6; Glioma (Trajković, V. (816) 92)

Nitric oxide; Pedunculopontine tegmentum; Cholinergic cell; Sleep; Wakefulness (Hars, B. (816) 209)

Acetylcholine; AF64A; $GABA_A$ receptor; $GABA_B$ receptor; Striatum (Ikarashi, Y. (816) 238)

Reperfusion injury; Superoxide anion; Transient focal cerebral ischemia (Mori, T. (816) 350)

Angiotensin II; Choroid plexus; Sympathetic nervous system; Nitric oxide (Chodobski, A. (816) 518)

Calcium current; Current density; Entorhinal cortex; Patch-clamp; Whole cell (Bruehl, C. (816) 554)

Immunocytochemistry; Electron microscopy; NR2B; Cerebral cortex; Hippocampus (Charton, J.P. (816) 609)

Suprachiasmatic nucleus; Retina; Illumination; Electrophysiology; Degu; Circadian; Entrainment (Jiao, Y.-Y. (817) 93)

Median preoptic nucleus; Paraventricular hypothalamic nucleus; Ventrolateral medulla; Catecholamine; Anterograde and retrograde tracing (Kawano, H. (817) 110)

Hypothermia; Traumatic brain injury; Cerebral ischemia; Hippocampus; Spatial memory; Excitotoxicity (Jenkins, L.W. (817) 132)

Nucleus accumbens; Addiction; Alcohol; Self-administration; Striatum; Basal ganglia; In vivo electrophysiology; Ensemble (Janak, P.H. (817) 172)

Apoptosis; DNA fragmentation; DNA repair; Cortical impact; Temporal profile; Hippocampus (Kaya, S.S. (818) 23)

Circadian rhythm; Single unit activity; Singularity; Oscillator; Clock resetting (Franken, P. (818) 34)

Partial epilepsy; Inhibition; Tetanus toxin (Hagemann, G. (818) 127)

Lead; Long-term depression; Hippocampal slice; Range of synaptic plasticity (Zhao, W.-F. (818) 153)

Hypoxia; Ischemia; Ketamine; Neonatal; Hippocampus (Spandou, E. (819) 1)

Chronic ethanol; Withdrawal; NMDA receptor; Alternative splicing; Cerebral cortex (Hardy, P.A. (819) 33)

AMPA; Vestibular end organ; Afferent; Neurotransmitter; Immunocytochemistry (Matsubara, A. (819) 58)

Gerbil; Parvocellular paraventricular nucleus; Substance P; Immunohistochemistry; Dehydration (Kang, T.-C. (820) 101)

Pain; Brush; Fos; Dorsolateral funiculus; Spinal cord (Wei, F. (820) 112)

Psychological stress; Memory; Corticosterone; Metyrapone; Serotonin (Liu, L. (821) 134)

Dendritic remodeling; Fear conditioning; Immunohistochemistry; Cytoskeletal protein; Immunoblot (Woolf, N.J. (821) 241)

Transdifferentiation; β-galactoside; Lectin; Ototoxicity; Cochlea (Bartolomé, M.V. (822) 43)

$Galanin_{rat}$; Galantide; Monoamine; Dopamine; Synthesis; Behavior (Ericson, E. (822) 200)

Corticotropin-releasing factor; Stress; Aging; Brain; Messenger RNA (Kasckow, J.W. (822) 228)

Nucleus accumbens; Cocaine; Self-administration; Addiction; Electrophysiology (Peoples, L.L. (822) 231)

WIN55,212-2; Tail-flick; CB1 receptor; Pain; Cannabinoid; Analgesia (Martin, W.J. (822) 237)

Arginine–vasopressin; Stress; Aging; Brain; Corticosterone; ACTH; Corticotropin-releasing factor (Mulchahey, J.J. (822) 243)

Cerebral ischemia; Middle cerebral artery occlusion; Circle of Willis; Hippocampus; Mouse (Özdemir, Y.G. (822) 260)

Enadoline; κ-Opioid receptor; Pentylenetetrazol; Seizure; Kindling; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Cortical spreading depression; Hippocampus; Hyperthermia; Paraventricular nucleus; Unit activity (Monda, M. (824) 119)

Isolation rearing; Locomotor activity; Prepulse inhibition; Startle; Synaptophysin; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Olivocerebellar pathway; Spatial learning; Spatial memory; Harmaline (Meignin, C. (824) 277)

CCK mRNA; Restraint stress; Sertraline; In situ hybridization (Giardino, L. (824) 304)

Estrogen; Olfactory function; 3-Methylindole (Dhong, H.-J. (824) 312)

Microglia; OX-42; OX-6; Spinal cord; Gracile nucleus; Formalin (Fu, K.-Y. (825) 59)

Cerebral ischemia; Hemoglobin allosteric modification (Sarraf-Yazdi, S. (826) 172)

Traumatic brain injury; Inducible transcription factor; Conditioned freezing response; Amygdala; Hippocampus (Abrous, D.N. (826) 181)

Nitric oxide synthase; Methylene blue; Microdialysis; Hippocampus (Volke, V. (826) 303)

Ischemia; Neuroprotection; Hypothermia; Peripheral nerve (Mitsui, Y. (827) 63)

Hippocampal formation; C-*fos*; Nociception (Funahashi, M. (827) 215)

Histamine; Noradrenaline; Thioperamide; Triprolidine; Rauwolscine; Food intake (Kurose, Y. (828) 115)

Acute stressor; Hypothalamus; Nitric oxide; Neuroendocrine; Histochemistry (Sánchez, F. (828) 159)

Apoptosis; Synaptogenesis; Tissue plasticity; Staurosporine; Middle cerebral artery occlusion (Chopp, M. (828) 197)

Focal cerebral ischemia; Middle cerebral artery occlusion; Neuroprotection; Immunohistochemistry; Poly(ADP-ribose) polymerase; Laser Doppler flowmetry (Takahashi, K. (829) 46)

Medial preoptic area; Amygdala; Sexual experience; D_1 dopamine antagonist; Male sexual behavior; Fos (Lumley, L.A. (829) 55)

Amino acid; Passive avoidance learning; Sepsis; Serotonin (Shimizu, I. (830) 94)

Neurotoxicity; Lentivirus; Maedi Visna virus; Human immunodeficiency virus; Tat peptides (Starling, I. (830) 285)

Fluid percussion brain injury; Excitatory amino acid receptor; Diacylglycerol; Free fatty acid (Dhillon, H.S. (832) 7)

8-Hydroxy-2′-deoxyguanosine; Cerebral ischemia; Oxidative stress; Terminal deoxynucleotidyl transferase-mediated dUTP-biotin in situ nick end labeling (TUNEL) (Hayashi, T. (832) 159)

Fura-2; Spike; Visual cortex; Voltage-dependent calcium channel (Isomura, Y. (832) 175)

Acoustic startle response; GABA; Picrotoxin; Prepulse inhibition; Schizophrenia; Sensorimotor gating; Superior colliculus (Fendt, M. (833) 81)

Acetaldehyde; Astrocyte; Apoptosis; Ethanol; Necrosis (Holownia, A. (833) 202)

Sleep; Serotonin; Hippocampus; Microdialysis (Park, S.P. (833) 291)

Hyperalgesia; Nociception; Nerve injury; Sciatic nerve ligation (Novak, J.C. (833) 308)

Nucleus submedius; Periaqueductal gray; Visceral nociception; Spinal dorsal horn; Colorectal distension (Okada, K. (834) 112)

Voltammetry; Ovariectomy; Dopamine transporter (Thompson, T.L. (834) 164)

c-Fos; NADPH-diaphorase; Nociception; Colocalization (Rodella, L. (834) 173)

Acetylcholine; Cerebral blood flow; Cholinergic system; GABA; *substantia innominata* (Barbelivien, A. (834) 223)

Cerebrum; Fluorescent; Motor cortex; Movement; Thalamus; Tracer (Gu, X. (835) 175)

Global ischaemia; Ascorbic acid; Neuroprotection; Striatum; Gerbil; Hippocampus; Dopamine (Stamford, J.A. (835) 229)

Picrotoxin; Muscimol (Hatfield, T. (835) 340)

[^{35}S]GTPγS binding; 5-HT_{1B} receptors; CP 93,129 (Mize, A.L. (836) 229)

Prolactin; Placental lactogen; Negative feedback; Pregnancy; β-endorphin; Fos; Rhythm; Mediobasal hypothalamus (Lee, Y. (837) 152)

Cerebral ischemia; Glutamate; Amino acid; Arachidonic acid; Free fatty acid; Glucose; Hyperglycemia; Cerebral cortex (Phillis, J.W. (837) 177)

Status epilepticus; Seizure; Hippocampus; Topiramate; Neuroprotection (Niebauer, M. (837) 263)

Brain plasticity; Middle cerebral artery occlusion; Nestin (Li, Y. (838) 1)

Nociceptin; Receptor; Autoradiography; Spinal cord (Gouardères, C. (838) 85)

Cerebral glucose metabolism; 2-Deoxyglucose; Status epilepticus; Perforant path stimulation (Pereira de Vasconcelos, A. (838) 110)

Cationic amino acid transporter; Brain; In situ hybridization; Immunohistochemistry; Arginine (Hosokawa, H. (838) 158)

CNTF; NGF; Induction; Cortical astrocyte; Interaction; $p75^{NTR}$ (Semkova, I. (838) 184)

Complement; C1-esterase inhibitor; Cerebral blood flow; Cortical vein occlusion (Heimann, A. (838) 210)

Corticosteroid; GIRK; Corticosterone; Hippocampus; Adrenalectomy; Glucocorticoid; Immunoblot; Mineralocorticoid; Glucocorticoid (Muma, N.A. (839) 331)

Medial vestibular nucleus; Lateral roll tilt; Acetylcholine; Glutamate (Takeshita, S. (840) 99)

Cerebral blood flow; Cerebral glucose use; Acetylcholine; Microdialysis; Substantia innominata (Barbelivien, A. (840) 115)

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Cerebral ischemia, focal; Photothrombosis; Reperfusion; Penumbra; Evolution of ischemia (Hu, X.L. (849) 175)

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Benzodiazepine receptor; Avoidance learning; Coping; Corticosterone; Unconditioned stimulus preexposure effect (Lehmann, J. (851) 141)

Circadian; GAD_{65}; GAD_{67}; SCN; In situ hybridization; GABA (Huhman, K.L. (851) 266)

Rat and human brain postmortem
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Focal cerebral ischemia; Reperfusion; Cortical spreading depression; Ischemic depolarization; Magnetic resonance imaging (Dijkhuizen, R.M. (840) 194)

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Rat cerebellum
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Rat cortical astrocyte
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Rate–intensity functions
Acoustic injury; Auditory function; Basilar papilla; Chick; Cochlear nerve; Single-unit recordings; Recovery of function (Plontke, S.K.-R. (842) 262)

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Amyloid β protein; 3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide reduction assay; Cell death; Exocytosis; Oxidative stress (Abe, K. (830) 146)

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Rat sciatic nerve
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Rat's passive avoidance
Combined tetrodotoxin reversible inactivation; Entorhinal cortex; Fimbria–fornix complex; Medial septal area; Memory consolidation (Baldi, E. (821) 503)

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Reactive astrocyte
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Reactive gliosis
Cadherin; Astrocyte; CNS injury; Glial scar; Cell adhesion; Regeneration (Vázquez-Chona, F. (838) 45)

Reactive oxygen intermediate
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Dopamine; Striatum; Mitochondria; Excitotoxicity; Monoamine oxidase (Maragos, W.F. (834) 168)

Astrocytes; MPTP; MPP^+; Superoxide dismutase; Adenosine triphosphate (Wong, S.S. (836) 237)

D2 receptor; Glial fibrillary acidic protein; p38 MAPK; Signal transduction; Mitogenesis; Astrocyte; C6 glioma cell (Luo, Y. (850) 21)

21-Aminosteroid; Stobadine; Trolox; α-Tocopherol; Deferoxamine; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Real-time monitoring
Brain; Hypoxia; Microdialysis electrode; Glutamate; In vivo (Kunimatsu, T. (831) 273)

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Serotonin; Motoneuron; Regeneration; Axotomy; Neurotrophin; Sciatic nerve; Peripheral nerve (Rende, M. (823) 234)

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Neurotrophic factor; mRNA expression; Traumatic brain injury (Oyesiku, N.M. (833) 161)

Apolipoprotein E; Cytoplasmic puncta; Alzheimer's disease (Motoi, Y. (833) 209)

Prolactin; Area postrema; Rabbit (Mangurian, L.P. (836) 218)

Nociceptin; Autoradiography; Rat; Spinal cord (Gouardères, C. (838) 85)

Squid giant synapse; Glutamate (Di Cosmo, A. (839) 213)

Autoradiography; Radioligand; *Tupaia belangeri*; Mapping; Distribution (Mijnster, M.J. (841) 101)

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δ-Receptor
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κ-Receptor
κ-Knockout; Knockout mouse; KOR gene; Opioid receptor; μ-Receptor; δ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

μ-Receptor
κ-Knockout; Knockout mouse; KOR gene; Opioid receptor; δ-Receptor; κ-Receptor; Autoradiography; Gene deletion (Slowe, S.J. (818) 335)

Receptor autoradiography
Angiotensin II receptor expression; In situ hybridization; [^{125}I]Sar^1-Ang II; Hypoxia; Cerebral blood flow; Gyrus dentatus; Hippocampus (Häuser, W. (817) 34)

Cortical blood flow; Cardiovascular response; Descending 5-HT projection; Retrograde axonal labeling (Underwood, M.D. (824) 45)

rTMS; NMDA receptors; Serotonin uptake sites; 5-HT$_{1A}$ receptors; Hippocampus; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

Galanin receptor; Drug reinforcement (Zachariou, V. (831) 33)

Receptor current
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Receptor–G protein coupling
[^{35}S]GTPγS; Striatum; 6-Hydroxydopamine; Supersensitivity (Geurts, M. (841) 135)

Receptor internalisation
NK$_1$ receptor; Amygdala; Substance P; Stress (Smith, D.W. (848) 90)

Receptor mismatch
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Receptor regulation
A$_1$ adenosine receptor; Agonist; Antagonist; Epidermal growth factor; Pituitary cell (Navarro, A. (816) 47)

Receptors
Subfornical organ; Electrophysiology; Drinking; RAMPs; Thirst (Riediger, T. (837) 161)

Receptor tyrosine kinase
Eph receptor; Glioblastoma cell line; Cell proliferation (Bruce, V. (821) 169)

Reciprocal inhibition
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Recombinant GABA$_A$ receptor
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Recombinant WSS-1 cell
Antidepressant; Amitriptyline; GABA$_A$ receptor; $^{36}Cl^-$ influx; HEK-293 cell (Malatynska, E. (851) 277)

Recovery of function
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Hippocampal cultured slice; Mossy fiber; Dentate gyrus (Gutiérrez, R. (815) 304)

Redox status
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Neuronal death; Signal transduction; Mitogen-activated protein kinase; Retina; Axotomy (Castagné, V. (842) 215)

Reduced sensitivity
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***Reeler* gene**
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Reelin
Reeler gene; Striatum; Compartment; Development; Rat (Nishikawa, S. (850) 244)

Reference memory
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Reflex
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Reflex control
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Regeneration
MAP1B; Peripheral nerve; Cytoskeleton; Plasticity; Motor neuron (Ramón-Cueto, A. (815) 213)

Serotonin; Motoneuron; Axotomy; Neurotrophin; Receptor; Sciatic nerve; Peripheral nerve (Rende, M. (823) 234)

Retinal ganglion cell; Sprouting; Peripheral nerve; Hamster (Lai, M.Y. (823) 241)

Neurite outgrowth; Myelin; Dorsal root ganglion; Central nervous system; Peripheral nervous system (Ng, W.P. (836) 49)

Cadherin; Astrocyte; CNS injury; Glial scar; Reactive gliosis; Cell adhesion (Vázquez-Chona, F. (838) 45)

Cell death; Excitotoxicity; Staurosporine; Glutamate (Small, D.L. (842) 376)

Ototoxicity; BDNF; *Trk*B; Vestibular epithelia (Popper, P. (846) 40)

Neurogenesis; Olfactory system; Rat; Zinc sulfate; Growth factor (Herzog, C. (849) 155)

Nerve injury; S-100; Periodontal ligament; Ruffini ending; Schwann cell; Immunohistochemistry (Atsumi, Y. (849) 187)

GAP-43; BDNF; Facial nerve; In situ hybridization; Drug delivery system (Kohmura, E. (849) 235)

Regional cerebral blood flow
Scopolamine; FK960; HA-966; Somatosensory stimulation; Positron emission tomography; Monkey (Tsukada, H. (832) 118)

Regulation
Androgen receptor; Brain; Hypogonadal; Mouse; Castration; Testosterone (Apostolinas, S. (817) 19)

Regulation of food intake
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Relapse
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REM
Hypothalamus; Sleep; Histamine; Tuberomammillary; Microwire (Steininger, T.L. (840) 138)

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REM sleep
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Oligodendrocyte; Demyelination; Jimpy ice; Galactocerebroside; Sulfatide (Cammer, W. (837) 188)

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Renal sympathetic nerve activity
Metabotropic glutamate receptor; Microinjection; Nucleus of the solitary tract; Sympathetic nervous system (Matsumura, K. (842) 461)

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Reorganization of spontaneous activity
Area 5; Trained monkey; Deafferentation; Command cell; Reaction time; Neural latency response normalization (Bioulac, B. (835) 266)

Reperfusion
Cerebral palsy; Oxidative stress; Oxygen free radicals; White matter (Jelinski, S.E. (815) 150)

Mitochondria; Cerebral ischemia; Hypothermia; Cytochrome c oxidase; Respiratory chain (Canevari, L. (817) 241)

Focal cerebral ischemia; Cortical spreading depression; Ischemic depolarization; Magnetic resonance imaging; Rat brain (Dijkhuizen, R.M. (840) 194)

Focal cerebral ischemia; Endothelin; FR139317; Laser Doppler flowmetry; Rat (Henshall, D.C. (843) 105)

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Cerebral ischemia, focal; Photothrombosis; Penumbra; Evolution of ischemia; Rat (Hu, X.L. (849) 175)

Reperfusion injury
Superoxide anion; Transient focal cerebral ischemia; Rat (Mori, T. (816) 350)

Matrix metalloproteinase; Cerebral ischemia; Blood–brain barrier; Brain edema (Fujimura, M. (842) 92)

Replication inhibitor
Neuroblastoma cell; Catecholamine; Sodium butyrate; Biochemical differentiation (Matsui, T. (843) 112)

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Resiniferatoxin
Vanilloid receptor; Desensitization to vanilloid; Substance P expression; Tachykinin NK-1 receptor expression (Szallasi, A. (815) 177)

Capsaicin; Vanilloid; VR1; Nociception (Szabo, T. (840) 92)

Respiration
Glossopharyngeal nerve; Nucleus tractus solitarius; Spinal nucleus of the trigeminal nerve; Chemoreceptor; Baroreceptor; Arousal (Blessing, W.W. (816) 405)

Expiration; Reticular formation; Motoneuron; Pseudorabies virus; Vestibular (Billig, I. (820) 31)

Substance P; Nucleus of the solitary tract; Aging; NK1 receptor; Autoradiography (Mazzone, S.B. (826) 139)

Excitatory amino acid; Ionotropic glutamate receptor; Metabotropic glutamate receptor; Lamprey; Control of breathing (Bongianni, F. (826) 298)

Blood pressure; Electrical stimulation; Heart rate; Subthalamic nucleus (Ángyán, L. (847) 130)

Respiratory chain
Mitochondria; Cerebral ischemia; Reperfusion; Hypothermia; Cytochrome c oxidase (Canevari, L. (817) 241)

Carotid body; Hypoxia; Low calcium and high magnesium; Presynaptic; Postsynaptic (Rozanov, C. (833) 101)

Respiratory control
Plasticity; Hypoxia (Bach, K.B. (817) 25)

N-methyl-D-aspartate; Non-NMDA; Rhythm and pattern generator; Cat (Anderson, M.K. (829) 69)

Superior laryngeal nerve; Pre-Bötzinger complex; Cat; Afferent integration (Anderson, M.K. (831) 306)

Respiratory inhibition
Astrocyte; BCX-34; Purine nucleoside phosphorylase; Anaerobic glycolysis (Litsky, M.L. (821) 426)

Respiratory neuron
Bötzinger complex; cVRG; Pre-Bötzinger complex; rVRG; Cardiopulmonary receptor; Carotid chemoreceptor (Chitravanshi, V.C. (821) 443)

Respiratory quotient
Background metabolism; Body weight; Obesity; Lipolysis (Ruffin, M.-P. (846) 23)

Respiratory regulation
Phrenic nerve; Laryngeal nerve; Sudden infant death syndrome; Spectral analysis; Development (Kocsis, B. (818) 180)

Restraint
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RET
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Retching
Tachykinin NK_1 receptor antagonist; GR205171; Substance P; Vomiting; Salivation; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

Retention
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Reticular formation
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Reticulospinal neuron
Catecholamine receptor; Catecholaminergic axon; C1 adrenergic neuron; Electron microscopy (Milner, T.A. (821) 200)

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Circadian rhythm; Melatonin; Dopamine; Microdialysis; Pigeon (Adachi, A. (815) 435)

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Rod outer segment; Taurine uptake; Protein kinase C; Chelerythrine (Militante, J.D. (818) 368)

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Rod photoreceptor; Progenitor; Stem cell; Differentiation; Electrophysiology (Ahmad, I. (831) 1)

Rd mouse; Fos; Circadian rhythm (Huerta, J.J. (834) 122)

D-Aspartate; Pituitary gland; Prolactin; Luteinizing hormone; Immunohistochemistry (Lee, J.-A. (838) 193)

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Neuronal death; Signal transduction; Mitogen-activated protein kinase; Redox status; Axotomy (Castagné, V. (842) 215)

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Hepatocyte growth factor; c-Met; Development; Competitive RT-PCR; Immunohistochemistry (Sun, W. (851) 46)

Retinal axon terminal
Calcitonin gene-related peptide; GABA; Dorsal terminal nucleus; Lateral terminal nucleus; Medial terminal nucleus; Calcium binding protein (Zhou, J. (838) 119)

Retinal degeneration
Apoptosis; Microglia; Müller cell; Photoreceptor cell; Lactate dehydrogenase; Necrosis; Nick-end labeling (Roque, R.S. (836) 110)

Retinal degeneration and gliosis
CNS gliosis; Glial fibrillary acidic protein; Iminodipropionitrile neurotoxicity; Nitrile neurotoxicity; Sensory toxicity (Seoane, A. (833) 258)

Retinal explant
Colchicine; Goldfish; Axonal transport; Tubulin; Vision (Dybowski, J.A. (842) 62)

Retinal ganglion cell
Regeneration; Sprouting; Peripheral nerve; Hamster (Lai, M.Y. (823) 241)

Retinal lesion
Retinotectal pathway; Lesion-induced plasticity; Antidepressant; Serotonin reuptake inhibitor; Fluoxetine; 5-HT (Bastos, E.F. (824) 28)

Retinal photoreceptor layer
Circadian oscillator; Output pathway; Adenosine 3′,5′-cyclic monophosphate; Melatonin; *Xenopus laevis* (Hasegawa, M. (824) 161)

Retinoblastoma protein
Embryonal carcinoma cell; Neuronal differentiation; Site-specific anti-phospho-pRb antibody; Cyclin-dependent kinase (Watanabe, Y. (842) 342)

Retinocollicular pathway
Electron microscopy; Immunocytochemistry; Corticocollicular pathway; Calcium binding protein; X, Y, W cells (Mize, R.R. (843) 25)

Retinoic acid
Organotypic culture; Neomycin intoxication; Protective action; Insulin; Epidermal growth factor; Transforming growth factors (Romand, R. (825) 46)

Leptomeningeal melanoma; Neural crest; Neuroendocrine differentiation; Neurofilament (Sorrentino, G. (827) 205)

Retinoid
Cell culture; Blood–brain barrier; Porcine; Transport; Sucrose (Franke, H. (818) 65)

Retinotectal pathway
Retinal lesion; Lesion-induced plasticity; Antidepressant; Serotonin reuptake inhibitor; Fluoxetine; 5-HT (Bastos, E.F. (824) 28)

Retinotopy
Transient evoked field; Human visual cortex; Extrastriate area; Neuromagnetic source localization; Superposition of response; Paired stimuli (Supek, S. (830) 43)

Retractor
Hypoglossal; Protruder; Motoneuron; Intracellular; Substance P (Gatti, P.J. (834) 155)

Retrograde axonal labeling
Cortical blood flow; Cardiovascular response; Descending 5-HT projection; Receptor autoradiography (Underwood, M.D. (824) 45)

Retrograde axonal transport
Calcium; Dopamine beta hydroxylase; Nerve growth factor; Calcium channel (Bartlett, S.E. (837) 8)

Retrograde fluorescent labeling
Lateral lemniscal nuclei; Dynorphin; Corticotropin-releasing factor; Glutamate decarboxylase; Acoustic stimulation (Ueyama, T. (849) 220)

Retrograde labeling
Pseudorabies virus; Transsynaptic transport; Tract-tracing; Inferior olive; Cholera toxin subunit B (Chen, S. (838) 171)

Retrograde tracing
Anterograde tracing; Neurobiotin; Pallium; Telencephalic subregion; Sensory processing (Von der Emde, G. (818) 355)

Lactation; Neuropeptide Y; Suckling; Arcuate nucleus (Li, C. (824) 267)

Median preoptic nucleus; Ventrolateral medulla; Catecholamine; Neuropeptide Y; Synapse (Kawano, H. (825) 204)

Vagus nerve; Double labeling; Parasympathetic motoneuron; Esophagocardiac reflex (Cheng, S.-B. (832) 171)

Retrohippocampal region
Cortical circuitry; Epilepsy (Stewart, M. (830) 274)

Cortical circuitry; Epilepsy (Funahashi, M. (849) 139)

Retrosplenial cortex
Anterior cingulate cortex; Prelimbic cortex; Infralimbic cortex; Dorsal peduncular cortex; Precentral medial cortex; *Phaseolus vulgaris* leucoagglutinin; Limbic cortex; Anterograde neuroanatomical tracing (Fisk, G.D. (825) 1)

Retzius neuron
Glutamate; Acidosis; Medicinal leech (Kilb, W. (824) 168)

Reuptake
Extracellular serotonin; Estrous cycle differences; Gender differences; Terminal autoreceptors (Maswood, S. (831) 146)

Reversed uptake
Anoxia; Glutamate; Dialysis electrode; Anoxic depolarization; Exocytosis (Satoh, M. (822) 142)

Reverse pharmaceutical research
Orphan G-protein-coupled receptor; Neuropeptide; Serendipity (Civelli, O. (848) 63)

Reverse transcriptase–polymerase chain reaction
α_1 Adrenoceptor; Stress; mRNA; Hypothalamus; Midbrain; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

Reverse transcription-polymerase chain reaction
3β-Hydroxysteroid dehydrogenase / Δ^5-Δ^4-isomerase; Gene expression; Enzymatic activity; Progesterone; Quail brain (Ukena, K. (818) 536)

Reverse transcription polymerase chain reaction
Cardiac ganglia; Parasympathetic neuron; Immunocytochemistry; Neuropeptide Y; Microtubule-associated protein-2; Colchicine; NPY mRNA (Lynch, S.W. (827) 70)

Reversible inactivation
Median raphe nucleus; Passive avoidance; Lidocaine (Sarihi, A. (817) 59)

Reward
Orphanin FQ; Nociceptin; Opioid; Morphine; Preference (Murphy, N.P. (832) 168)

Delay; Bird; Forebrain; NCL (Kalt, T. (839) 263)

Intracranial self-stimulation (ICSS); Memantine; MK-801 (dizocilpine); Lateral hypothalamus; Median forebrain bundle; Curve-shift paradigm; NMDA receptor (Tzschentke, T.M. (845) 192)

Rewarded alternation task
Ventral subiculum; Ibotenic acid; T-maze (Laxmi, T.R. (816) 245)

Rhodamine 123
Glutamate; Neurotoxicity; Mitochondrial depolarization; Neurons (Almeida, A. (816) 580)

Rho subunit
$GABA_C$ receptor; Subunit assembly; Heterologous expression (Enz, R. (846) 177)

Rhythm
Adenylate cyclase; Cyclic AMP; Circadian; Protein kinase A; Suprachiasmatic (Lee, J.M. (835) 350)

Prolactin; Placental lactogen; Negative feedback; Pregnancy; β-endorphin; Fos; Mediobasal hypothalamus; Rat (Lee, Y. (837) 152)

Chelerthyrine chloride; Circadian; Protein kinase C; Suprachiasmatic (Schak, K.M. (840) 158)

Entrainment; Arcuate nucleus; Neuropeptide Y; Food deprivation; Masking; Obesity (Mistlberger, R.E. (842) 73)

Rhythm and pattern generator
Respiratory control; *N*-methyl-D-aspartate; Non-NMDA; Cat (Anderson, M.K. (829) 69)

Ribosome inactivating protein
Basal forebrain; Neostriatum; Cholinergic neuron; Immunocytochemistry (Kwok, K.H.H. (846) 154)

Righting reflex
Transcranial electrical stimulation; Limoge's current; Potentiation; Droperidol (Robert, C. (822) 132)

mRNA
Growth factor; Postnatal; Phosphorylation; Vitamin K-dependent; Mitogen (Prieto, A.L. (816) 646)

Amyotrophic lateral sclerosis; RET; GDNFR-α; Spinal cord motor neuron (Mitsuma, N. (820) 77)

Neuron; Glia; Fetal; Postnatal (Devaskar, S.U. (823) 113)

α_1 Adrenoceptor; Stress; Hypothalamus; Midbrain; Reverse transcriptase–polymerase chain reaction; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

Melanotransferrin; Brain; Liver; Alzheimer's disease (Yamada, T. (845) 1)

NMDA receptor; Excitotoxicity; Fura-2; Magfura-2; Calcium (Cheng, C. (849) 97)

Antisense; Opioid growth factor receptor; ζ-Opioid receptor; Rat; Gene; cDNA (Zagon, I.S. (849) 147)

RNA-binding protein
DNA-binding protein; Brain (Wu, X.Q. (819) 174)

mRNA expression
Neurotrophic factor; Receptor; Traumatic brain injury (Oyesiku, N.M. (833) 161)

RO4-1284
REM sleep; Visual system; Activity-dependent development; Thalamus; Cat (Marks, G.A. (815) 21)

Rod outer segment
Retina; Taurine uptake; Protein kinase C; Chelerythrine (Militante, J.D. (818) 368)

Rod photoreceptor
Retina; Progenitor; Stem cell; Differentiation; Electrophysiology (Ahmad, I. (831) 1)

Rolipram
Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; AIDS (Yirmiya, R. (829) 28)

ROS
SH-SY5Y human neuroblastoma cell; 24-Hydroxycholesterol; Lactate dehydrogenase; Calcium (Kölsch, H. (818) 171)

Rose bengal
Extracellular potassium concentrations; Slow voltage variation; Brain damage; Ischemia; Trolox; Membrane permeability; Chick retina (Netto, M. (827) 221)

Rostral–ventral medulla
Supraspinal/spinal synergy; δ-Opioid agonist; [D-Ala^2,Glu^4]deltorphin; [D-Pen^2,D-Pen^5]enkephalin; Antinociception (Kovelowski, C.J. (843) 12)

Rostral ventrolateral medulla
Corticosterone; Rapid effect; Extracellular recording; Microiontophoresis (Rong, W. (815) 51)

Muscimol; Bicuculline; Sympathetic nerve activity; Arterial blood pressure; Plasma catecholamine (Natarajan, M. (827) 169)

Cerebral blood flow; ATP-sensitive potassium channel; Hypoxia; Oxygen; Arterial pressure (Golanov, E.V. (827) 210)

Caudal ventrolateral medulla; Arterial blood pressure; Heart rate; Glutamate; GABA (Freda, B.J. (828) 60)

Caudal ventrolateral medulla; Excitatory amino acid; Microdialysis; Blood pressure (Lillaney, R. (844) 164)

Rostral ventromedial medulla
β-Endorphin analgesia; AP7; MK801; NMDA receptor; Scopolamine; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray (Spinella, M. (829) 151)

Rotator
Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neocortex; Neuronal loss; Neuronal size distribution; Optical dissector; Stereology (Fischer, C.P. (828) 119)

RPTPk
R-PTP; R-PTP-k; PTP; Transgene (Shen, P. (826) 157)

RSK
Sos; Phospholipase A_2; Shc; Grb2; MAP kinase; Post-synaptic density (Suzuki, T. (840) 36)

RT-PCR
$GABA_A$ receptor; Embryonic carcinoma cell; Ethanol; Imaging; Subunit expression (Chistina Grobin, A. (827) 1)

Calpain; Free radical; IFN-γ; A23187; C6 cell death (Ray, S.K. (829) 18)

RU 486
Maternal behavior; Progesterone; Medial preoptic area; Medial hypothalamus; Lactation; Pregnancy (Numan, M. (830) 358)

RU38486
Glucocorticoid receptor; Osmotic pump; Post-rotatory nystagmus; Guinea pig (Shimogori, H. (851) 258)

Rubidium
Lithium; Escape deficit; Stress; Dopamine; Microdialysis (Gambarana, C. (826) 200)

Ruffini ending
Nerve injury; S-100; Periodontal ligament; Schwann cell; Regeneration; Immunohistochemistry (Atsumi, Y. (849) 187)

RVLM
Body temperature regulation; Skin blood flow; RVMM; Raphé; Renal nerve (Rathner, J.A. (834) 196)

RVMM
Body temperature regulation; Skin blood flow; RVLM; Raphé; Renal nerve (Rathner, J.A. (834) 196)

Ryanodine
Diabetes; Calcium; Allodynia; Hyperalgesia; Thapsigargin; Spinal cord (Ohsawa, M. (833) 278)

Ryanodine receptor
Classical conditioning; Calcium-induced calcium release; Photoreceptor; Associative learning; Light adaptation (Blackwell, K.T. (822) 114)

S

S100
Dorsal root ganglion; Mesencephalic trigeminal tract nucleus; Parvalbumin; Peptide 19; Proprioceptor (Ichikawa, H. (821) 231)

Antichymotrypsin; Interleukin-1; Butyrylcholinesterase; Nitric oxide synthase; Alzheimer's disease (Hu, J. (842) 46)

Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Parvalbumin; Peptide 19; Tooth pulp; Trigeminal ganglion (Ichikawa, H. (846) 274)

S-100
Nerve injury; Periodontal ligament; Ruffini ending; Schwann cell; Regeneration; Immunohistochemistry (Atsumi, Y. (849) 187)

Saccade
Visuomotor; Lateral geniculate nucleus; Reticular formation; Orienting movement (Billet, S. (847) 121)

Saccadic system
Degeneration; Hemispherectomy; Subcortical; Stereology; Striatum (Théoret, H. (835) 354)

Sacral
Spinal cord; Motoneuron; Cytotoxicity; NOS1 (Pullen, A.H. (836) 173)

Sacral parasympathetic nucleus
Urinary bladder inflammation; Neurotrophic factor; Dorsal root ganglia; Spinal cord; Lateral collateral pathway (Vizzard, M.A. (844) 174)

Saffron
Acetaldehyde; Long-term potentiation; Dentate gyrus; Hippocampus (Abe, K. (851) 287)

Salicylate trapping
Pentylenetetrazol (PTZ); Seizure; Kindling; Free hydroxyl radical (Rauca, C. (847) 347)

Salicylic acid
Neuronal death; Antioxidant; Redox status; Chick embryo; Retina (Castagné, V. (840) 162)

Salivation
Tachykinin NK_1 receptor antagonist; GR205171; Substance P; Vomiting; Retching; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

Salt appetite
Antisense; Adrenomedullin (Samson, W.K. (818) 164)

Saporin
Acetylcholine; Monkey; Discrimination learning; Cortex; Hippocampus (Ridley, R.M. (836) 120)

Satellite cell
Acetylcholine receptor; Neuromuscular junction; Dystrophin; Agrin; Muscle regeneration (Kong, J. (839) 298)

Satiety
Brain–gut axis; Regulation of food intake; Cholecystokinin; *C-fos* protein (Zittel, T.T. (846) 1)

Saturable transport
Peptide; Blood–brain barrier; Diffusion (Kastin, A.J. (848) 96)

Saturated fat
Hypothalamus; Obesity; $n-3$ Polyunsaturated fat; $n-6$ Polyunsaturated fat (Wang, H. (843) 184)

S-100β
Dental pulp; Axon; Schwann cell; Immunohistochemistry (Atsumi, Y. (818) 515)

Basic fibroblast growth factor; Stereology; Immunohistochemistry; Fractionator (Gomide, V.C. (835) 162)

SB 206553
VMN; Serotonin; MDL 100,907; Ketanserin; DOI (Wolf, A. (825) 146)

S100β protein
Developing brain; Hippocampus; Dentate gyrus; Gamma irradiation; Astrocyte proliferation; Autoradiography; Immunocytochemistry (Janeczko, K. (816) 628)

Scatchard analysis
Trihexyphenidyl; Biperiden; Learning and memory; Passive avoidance; Exchange assay (Kimura, Y. (834) 6)

Scent marking behavior
Vasopressin; Golden hamster; Olfactory communication (Ferris, C.F. (832) 1)

SCH 23390
SKF 82958; Freezing; Mesoamygdaloid dopaminergic system; Stress2i (Guarraci, F.A. (827) 28)

Schizophrenia
Acoustic startle response; Fear-potentiated startle; Latent inhibition; Nucleus basalis magnocellularis; Prepulse inhibition (Schauz, C. (815) 98)

Isolation rearing; Rat; Locomotor activity; Prepulse inhibition; Startle; Synaptophysin; Dentate gyrus; Hippocampus (Varty, G.B. (824) 197)

Ibotenic acid; Voltammetry; Locomotor activity; Perinatal anoxia; Medial prefrontal cortex (Brake, W.G. (831) 25)

Acoustic startle response; GABA; Picrotoxin; Prepulse inhibition; Rat; Sensorimotor gating; Superior colliculus (Fendt, M. (833) 81)

Ketamine; Amphetamine; MK-801; NMDA; Animal model; Limbic system; Prefrontal cortex; Hippocampus (Duncan, G.E. (843) 171)

Development; Entorhinal cortex; Spatial memory; Social behaviour; Rat (Talamini, L.M. (847) 105)

Interleukin-6; Amphetamine; Sensitization; Locomotion; Stress (Zalcman, S. (847) 276)

Schwann cell
S-100β; Dental pulp; Axon; Immunohistochemistry (Atsumi, Y. (818) 515)

Astrocyte; GFAP; Inflammation; Injury; Enteric glia (Sofroniew, M.V. (835) 91)

Nerve injury; S-100; Periodontal ligament; Ruffini ending; Regeneration; Immunohistochemistry (Atsumi, Y. (849) 187)

Sciatic nerve
Cytoskeleton; Microtubule; Protein phosphorylation; Axotomy; Glial cell (Ma, D. (823) 141)

Serotonin; Motoneuron; Regeneration; Axotomy; Neurotrophin; Receptor; Peripheral nerve (Rende, M. (823) 234)

Laser-Doppler flowmetry; Somatosensory cortex (Ngai, A.C. (837) 221)

Sciatic nerve block
Wide dynamic range neuron; Post discharge; LTP; Spinalization; Pain (Svendsen, F. (816) 487)

Sciatic nerve ligation
Hyperalgesia; Nociception; Nerve injury; Rat (Novak, J.C. (833) 308)

SCN
Circadian; GAD_{65}; GAD_{67}; In situ hybridization; GABA; Rat (Huhman, K.L. (851) 266)

Scn8a
Sodium channel; Spinal motoneuron; Resurgent current (Pan, F. (849) 162)

Scopolamine
β-Endorphin analgesia; AP7; MK801; NMDA receptor; Mecamylamine; Cholinergic receptor; Ventrolateral periaqueductal gray; Rostral ventromedial medulla (Spinella, M. (829) 151)

FK960; HA-966; Regional cerebral blood flow; Somatosensory stimulation; Positron emission tomography; Monkey (Tsukada, H. (832) 118)

Grooming behavior; 5,7-Dihydroxytryptamine; Hippocampus; NMDA antagonist (Robertson, B.J. (838) 234)

Scorpion venom
K_{Ca} channel; Rat cerebellum; Charybdotoxin; Noxiustoxin; *Androctonus australis* Hector (Ottolia, M. (815) 410)

Seasonal breeding
Melatonin receptor; Photoresponsiveness; Individual variation; Pars tuberalis; Suprachiasmatic nucleus; Paraventricular nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Secondary ending
Isolated muscle spindle; Primary ending; Temperature coefficient; Ramp-and-hold stretch; Adaptation (Fischer, M. (840) 1)

Secondary generalized epilepsy
GLAST; Knockout mice; Kindling; Pentylenetetrazole; Primary generalized epilepsy (Watanabe, T. (845) 92)

Secondary somatosensory cortex
Brain mapping; Functional MRI (Maldjian, J.A. (824) 291)

Second messenger
Ion channel; Phosphorylation; Whole-cell voltage-clamp (Vargas, G. (828) 169)

Secretion
Neuroendocrine cell; Proteolytic processing; Protein release; Protease; Tissue plasminogen activator; Storage granule; AtT20 cell (Santell, L. (816) 258)

Secretogranin II; Secretoneurin; Proteolysis; Spleen; Perfusate (Liang, F. (818) 459)

Vasoactive intestinal peptide; Peptide T; Chemokine; gp120; Acquired immunodeficiency syndrome (Brenneman, D.E. (838) 27)

Dura; Estradiol; Histamine; Mast cell; Migraine; Neuron; Neuropeptide; Substance P; Stress (Rozniecki, J.J. (849) 1)

Secretogranin II
Secretoneurin; Proteolysis; Secretion; Spleen; Perfusate (Liang, F. (818) 459)

Secretoneurin
Secretogranin II; Proteolysis; Secretion; Spleen; Perfusate (Liang, F. (818) 459)

Sedation
Rat; Locus coeruleus; Alpha-2 adrenergic; Dexmedetomidine; Atipamezole; Nitric oxide-cGMP system (Vulliemoz, Y. (849) 169)

SEF
Cerebral cortex; Magnetoencephalography; Aging; Gender; Sex; SEP; Evoked response (Huttunen, J. (818) 196)

SEGYLRFamide
SEPYLRFamide; EPYLRFamide; SRPYLRFamide; SKPYLRFamide; Acetylcholine; Identified neurones; *Helix lucorum* (Pivovarov, A.S. (821) 294)

Seizure
Organotypic hippocampal culture; Low magnesium; Dentate gyrus (Gutiérrez, R. (815) 294)

γ-Aminobutyric acid receptor/channel; Whole cell $GABA_A$ current; Patch clamp; Freshly isolated neuron (Ye, J.H. (821) 26)

Rat; Enadoline; κ-Opioid receptor; Pentylenetetrazol; Kindling; Learning; Shuttle-box; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Hypoxia preconditioning; Kainic acid; Status epilepticus; Brain edema; Specific gravity (Emerson, M.R. (825) 189)

Zinc; Epilepsy; El mouse; Convulsion (Takeda, A. (828) 174)

Polyamine; *N*-Acetylpolyamine; γ-Aminobutyric acid; Kindling; Pentylenetetrazol (Hayashi, Y. (828) 184)

Neurosteroid; Pregnenolone sulfate; NMDA receptor; $GABA_A$ receptor (Kokate, T.G. (831) 119)

Cerebral ischemia; GABA; NMDA; Lidocaine; Pentylenetetrazol (Kim, D.-C. (831) 131)

Epilepsy; Cholinergic; Eserine; Development; Ontogenesise (Gruslin, E. (835) 290)

Status epilepticus; Hippocampus; Topiramate; Neuroprotection; Rat (Niebauer, M. (837) 263)

Estrogen; Progesterone; Flurothyl; Hippocampus; Entorhinal cortex (Velíšek, L. (842) 132)

NMDA; Glutamate; Pregnancy; Rat; Epilepsy (Standley, C.A. (844) 10)

Eicosapentaenoic acid; Neuronal excitability; Pentylenetetrazole; Glutamate (Xiao, Y.-F. (846) 112)

Pentylenetetrazol (PTZ); Kindling; Free hydroxyl radical; Salicylate trapping (Rauca, C. (847) 347)

Neuropeptide Y; Hippocampus; Cognition (Redrobe, J.P. (848) 153)

Hippocampal; Magnesium; Neuronal culture; Phosphatase; Phosphorylation (Blair, R.E. (851) 54)

Seizure network
Audiogenic seizure; Deep layers of superior colliculus; Startle; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (815) 250)

Audiogenic seizure; Superior colliculus; Genetically epilepsy-prone rat; Pontine reticular formation; Inferior colliculus (Faingold, C. (821) 392)

Seizures
N-tert-Butyl-α-phenylnitrone; Diisopropylphosphorofluoridate; Physostigmine salicylate; Pilocarpine hydrochloride; Kainic acid; Rat (Zivin, M. (850) 63)

Seizure susceptibility
Ethacrynic acid; c-*fos*; Nerve growth factor; Generalized tonic–clonic convulsion; Parvalbumin (Suzukawa, J. (834) 89)

Selectin
Cerebral ischemia (Soriano, S.G. (835) 360)

Selective attention
Event-related potential; Modality specific processing; Supramodal brain system; Negativity difference; N1; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Selective brain cooling
Carotid rete; Hypothalamus; Pons; Ultradian wake–sleep cycle; Systemic brain cooling (Azzaroni, A. (844) 206)

Selective breeding
Antinociception; Genetics; Solution hybridization (Kest, B. (816) 381)

Selective neuronal vulnerability
Global complete cerebral ischemia; Streptozotocin-induced diabetes; Lactic acidosis; Intracellular pH; High-energy phosphate (Hoxworth, J.M. (821) 467)

Intercellular adhesion molecule 1 (ICAM-1); Cerebral ischemia; Reactive astrocyte; Knockout mouse; Hippocampus (Kitagawa, K. (847) 166)

Selective serotonin reuptake inhibitor
Fluoxetine; Mu-opioid receptor; Rat brain; Antidepressant; Immunostaining (De Gandarias, J.M. (817) 236)

Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; P-glycoprotein; Stereoselectivity; Transport (Rochat, B. (831) 229)

Selective vulnerability
Ischemia; Hypoxia; Aggregate cell culture; GABAergic interneuron; Cholinergic neuron (Pardo, B. (818) 84)

Selegiline
MAO B inhibitor; In vivo microdialysis; Dopamine; Striatum; Primate (Kaseda, S. (815) 44)

Selenium
Methamphetamine; Neurotoxicity; Dopamine; Caudate nucleus; Oxidative stress (Imam, S.Z. (818) 575)

Self-administration
Nucleus accumbens; Addiction; Alcohol; Striatum; Basal ganglia; Rat; In vivo electrophysiology; Ensemble (Janak, P.H. (817) 172)

Morphine; Proenkephalin; Striatum; Nucleus accumbens; Lewis; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Nucleus accumbens; Cocaine; Addiction; Electrophysiology; Rat (Peoples, L.L. (822) 231)

Semaphorin IV
Human brain; Immunohistochemistry; Hippocampus; Nerve process (Hirsch, E. (823) 67)

Senescence-accelerated mouse
Age; Hippocampus; Calcium pump; Protein kinase; Calbindin (Armbrecht, H.J. (842) 287)

Senile plaque
Metabolism; Processing (Arai, T. (823) 202)

Bleomycin hydrolase; Protease; Alzheimer's disease; Immunohistochemistry (Namba, Y. (830) 200)

Sensation
Kinaesthesia; Muscle spindle; Fusimotor; Contraction; Stretch (Wise, A.K. (821) 87)

Sensitization
Cocaine; Nicotine; Dizocipline; Ethanol; Dopamine transporter (Itzhak, Y. (818) 204)

Amphetamine; Gamma-aminobutyric acid; $GABA_A$ receptor; Locomotion; Prefrontal cortex (Gruen, R.J. (825) 180)

Cocaine; Medial prefrontal cortex; 6-Hydroxydopamine; Microdialysis; Dopamine; Nucleus accumbens (Beyer, C.E. (833) 133)

MK-801; Locomotor activity; Cocaine (O'Neill, M.F. (834) 103)

Cocaine; Locomotor activity; Strain difference; Sex difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat; Spontaneous hypertensive rat (Cailhol, S. (842) 200)

Circadian rhythm; Methamphetamine (Nikaido, T. (845) 112)

Interleukin-6; Amphetamine; Locomotion; Schizophrenia; Stress (Zalcman, S. (847) 276)

Sensorimotor gating
Acoustic startle response; GABA; Picrotoxin; Prepulse inhibition; Rat; Schizophrenia; Superior colliculus (Fendt, M. (833) 81)

Sensorimotor information processing
Motor control; Initiation of movement; Learned motor performance; Electromyographic analysis of behavior (Woody, C.D. (836) 79)

Sensory
Receptor; Noise analysis; Arthropod (Höger, U. (826) 230)

Sensory deprivation
Cell death; Development; Cerebral cortex (Papadopoulos, G.C. (838) 214)

Sensory ganglion
Acetylcholine; Arterial chemoreceptor; Carotid body; Dopamine; Petrosal ganglion (Alcayaga, J. (831) 97)

Arterial chemoreceptor; Carotid body; Cyanide; Hypoxia; Petrosal ganglion (Alcayaga, J. (845) 28)

Sensory gating
Auditory evoked potential; P1 potential; Startle; Prepulse inhibition; Pedunculopontine nucleus (Miyazato, H. (822) 60)

Sensory interaction
Human; Posture; Vestibular; Somatosensory; Galvanic stimulation (Hlavacka, F. (821) 8)

Sensory neuron
Neuropeptide; Tachykinin-related peptide; FMRFamide; Allatotropin; Insect nervous system (Persson, M.G.S. (816) 131)

Muscarinic acetylcholine receptor; Dorsal root ganglia; Nociception (Tata, A.M. (824) 63)

Verotoxin receptor; Hemolytic uremic syndrome; Fabry's disease (Ren, J. (825) 183)

Sensory neurons
Primary afferents; Immunohistochemistry; Nociception (Carlton, S.M. (820) 63)

Sensory processing
Retrograde tracing; Anterograde tracing; Neurobiotin; Pallium; Telencephalic subregion (Von der Emde, G. (818) 355)

Sensory substitution
Positron emission tomography; Blindness; Visual cortex; Plasticity (De Volder, A.G. (826) 128)

Sensory system
Somatosensory cortex; Short-term plasticity; Vibrotaction; EEG; Driving response; Microstimulation (Kelly, E.F. (815) 326)

Ventrobasal thalamus; Lateral geniculate nucleus; Nitric oxide; Guanylate cyclase; Cyclic GMP (Shaw, P.J. (833) 272)

Sensory toxicity
CNS gliosis; Glial fibrillary acidic protein; Iminodipropionitrile neurotoxicity; Nitrile neurotoxicity; Retinal degeneration and gliosis (Seoane, A. (833) 258)

Sensory transmission
Calcium channel; $GABA_B$ receptor; Presynaptic inhibition; Lamprey (Bussières, N. (847) 175)

Sensory trigeminal nuclear complex
Nerve injury; Infraorbital nerve; Thalamus; Apoptosis; Newborn rat (Sugimoto, T. (824) 284)

SEP
Cerebral cortex; Magnetoencephalography; Aging; Gender; Sex; SEF; Evoked response (Huttunen, J. (818) 196)

Writing; Skill; Non-dominant hand; Gating (Hoshiyama, M. (833) 10)

Sepsis
Amino acid; Passive avoidance learning; Rat; Serotonin (Shimizu, I. (830) 94)

Septohippocampal pathway
Hippocampal formation; Interneuron; Astrocyte; Electron microscopy; 192 IgG-saporin (Milner, T.A. (831) 322)

Septum
Hypothalamo-pituitary-adrenocortical axis; Paraventricular nucleus; Hippocampus; Amygdala; Suprachiasmatic; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

Acetylcholine; Aversive conditioning; γ-Aminobutyric acid; Hippocampus; Memory; Mouse; Retention; Serotonin (Farr, S.A. (847) 221)

SEPYLRFamide
EPYLRFamide; SEGYLRFamide; SRPYLRFamide; SKPYLRFamide; Acetylcholine; Identified neurones; *Helix lucorum* (Pivovarov, A.S. (821) 294)

SERCA
Endoplasmic reticulum; Orthophosphate; Calcium homeostasis; Thapsigargin; Intracellular (Parsons, J.T. (834) 32)

Human microglia; Ca^{2+} fluorescence microscopy; Platelet-activating factor; Cyclopiazonic acid; Store-operated Ca^{2+} entry (Wang, X. (842) 159)

Serendipity
Orphan G-protein-coupled receptor; Neuropeptide; Reverse pharmaceutical research (Civelli, O. (848) 63)

Serine protease
Oligodendrocyte; Kainic acid (Tomizawa, K. (824) 308)

Serotonergic
Noradrenergic; Olivocochlear; Efferent; Auditory (Woods, C.I. (836) 9)

Serotonergic neuron
Monoamine oxidase; Intermediolateral nucleus; Sympathetic preganglionic neuron; Noradrenergic neuron; Parkinson's disease (Yamada, H. (833) 302)

Serotonin
Interleukin-6; Lipopolysaccharide; Interleukin-1; ACTH; Corticosterone; Tryptophan (Wang, J. (815) 337)

Amphetamine; Drug addiction; Glutamate; Neuropeptide FF; Medial prefrontal cortex (Chen, J.-C. (816) 220)

Lipopolysaccharide; Norepinephrine; Dopamine; Corticosterone; ACTH; Anxiety; Exploration (Lacosta, S. (818) 291)

Suprachiasmatic nucleus; Circadian rhythm; Melatonin; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (818) 408)

Male sexual behavior; 8-OH-DPAT; Medial preoptic area; Dopamine; Raclopride; MPPI (Matuszewich, L. (820) 55)

Psychological stress; Memory; Corticosterone; Metyrapone; Rat (Liu, L. (821) 134)

Receptor; Penile reflex; Copulatory behavior; Buspirone; Gepirone; DPAT; BMY-7378 (Rehman, J. (821) 414)

Immunohistochemistry; Insect; Praying mantis; Optic lobe; Lamina (Leitinger, G. (823) 11)

Calbindin; Renshaw cell; Interneuron (Carr, P.A. (823) 198)

Motoneuron; Regeneration; Axotomy; Neurotrophin; Receptor; Sciatic nerve; Peripheral nerve (Rende, M. (823) 234)

Lipopolysaccharide; Interleukin-1 receptor antagonist; Hypothalamus; Brain; Catecholamine (MohanKumar, S.M.J. (824) 232)

VMN; MDL 100,907; SB 206553; Ketanserin; DOI (Wolf, A. (825) 146)

5-HT-moduline; Stress; 5-HT_{1B} receptor; Kinetic (Bonnin, A. (825) 152)

Immunohistochemistry; Raphe nuclei; Fos; Stress; Anxiety; Depression (Grahn, R.E. (826) 35)

Amino acid; Passive avoidance learning; Rat; Sepsis (Shimizu, I. (830) 94)

Lidocaine; 8-OH-DPAT; Nucleus raphe magnus; O_2 consumption; EMG (Berner, N.J. (831) 155)

5-HT; Cortex; Human; 5-HT_{2A}; 5-HT_{1A} (Newberry, N.R. (833) 93)

Sleep; Hippocampus; Rat; Microdialysis (Park, S.P. (833) 291)

Noradrenaline; Hippocampus; Unilateral vestibular deafferentation (Zheng, Y. (836) 199)

Fenfluramine; Body temperature; GFAP (Stewart, C.W. (839) 279)

Stress; Predator; Corticosterone; Norepinephrine; Dopamine; Limbic excitability; Kindling (McIntyre, D.C. (840) 65)

Morphine; C-Fos; JunB; Dorsal raphe nucleus; β-FNA (Frankel, P.S. (842) 220)

Excitatory amino acid; NMDA; Receptor; Circadian rhythm (Kennaway, D.J. (845) 102)

Analgesia; Calcitonin; 5-HT receptor; Writhing test; Mice (Ormazábal, M.J. (845) 130)

Dorsal raphe neuron; Intracellular calcium; Nociceptin; μ-Opioid agonist; Neuropeptide FF (Roumy, M. (845) 208)

Acetylcholine; Aversive conditioning; γ-Aminobutyric acid; Hippocampus; Memory; Mouse; Retention; Septum (Farr, S.A. (847) 221)

Galanin; Acetylcholine; Cognition; Spatial learning; Passive avoidance; Microdialysis (Ögren, S.O. (848) 174)

Circadian rhythm; IGL; Suprachiasmatic nucleus; Non-photic; Neuropeptide Y (Schuhler, S. (849) 16)

Serotonin 5-HT$_{1A}$ agonist
Acute subdural hematoma; Rat; BAY X3702; Ischemia; Neuroprotection (Alessandri, B. (845) 232)

Serotonin (5-HT, 5-hydroxytryptamine)
Chronic citalopram treatment; Autoreceptor sensitivity; Dorsal hippocampus; Frontal cortex; Antidepressant; In vivo microdialysis (Hjorth, S. (835) 224)

Serotonin 5-HT$_{1A}$ receptor
8-Hydroxy-2-(*N*,*N*-dipropylamino)tetralin (8-OH-DPAT); *N*-methyl-D-aspartate receptor; Long-term potentiation; Visual cortex (Edagawa, Y. (827) 225)

Serotonin-*N*-acetyltransferase
L-Glutamate; Hydroxyindole-*O*-methyltransferase; Melatonin; Pinealocyte (Ishio, S. (850) 73)

Serotonin receptor
Suprachiasmatic nucleus; Intergeniculate leaflet; Lateral geniculate nucleus; Raphe nuclei; Circadian rhythm; Aging (Duncan, M.J. (829) 39)

Serotonin$_{1A}$ receptor
Acetylcholine; Serotonin$_2$ receptor; Spatial navigation; EEG; Alzheimer's disease (Dringenberg, H.C. (837) 242)

Serotonin$_2$ receptor
Acetylcholine; Serotonin$_{1A}$ receptor; Spatial navigation; EEG; Alzheimer's disease (Dringenberg, H.C. (837) 242)

Serotonin reuptake inhibitor
Retinotectal pathway; Retinal lesion; Lesion-induced plasticity; Antidepressant; Fluoxetine; 5-HT (Bastos, E.F. (824) 28)

Serotonin uptake
Antidepressant; Depression; Monoamine transporter; Norepinephrine uptake; Glia; Astrocyte (Neary, J.T. (816) 358)

Serotonin uptake sites
rTMS; Receptor autoradiography; NMDA receptors; 5-HT$_{1A}$ receptors; Hippocampus; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

Sertoli cell
Dopamine; Tyrosine hydroxylase; Trophic factor; Transplantation (Willing, A.E. (822) 246)

Parkinson's disease; Transplantation; Striatum; Substantia nigra (Liu, H.-W. (838) 227)

Sertraline
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Serum deprivation
Dexamethasone; Cytotoxicity; Necrosis; Rat C6 glioma cell; Glucocorticoid receptor (Morita, K. (816) 309)

Steroid 5α-reductase mRNA; Gene expression; One-step RT-PCR; Rat C6 glioma cell (Morita, K. (830) 179)

Sex
Cerebral cortex; Magnetoencephalography; Aging; Gender; SEF; SEP; Evoked response (Huttunen, J. (818) 196)

Sex difference
Pain; Antinociception; Morphine; Adult gonadectomy (Krzanowska, E.K. (821) 224)

Brain weight; Estradiol; Testosterone (Galea, L.A.M. (821) 383)

Cocaine; Sensitization; Locomotor activity; Strain difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat; Spontaneous hypertensive rat (Cailhol, S. (842) 200)

Sex difference and differentiation
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Sex-reversed
Reptile; Preoptic area; Ventromedial hypothalamus (Wennstrom, K.L. (838) 104)

Sexual dimorphism
Siberian hamster; Photoperiod; Spinal nucleus of the bulbocavernosus; Neuromuscular junctions (Hegstrom, C.D. (819) 83)

Hippocampus; Dentate gyrus; Androgen; Androgen insensitivity; *tfm* (Tabibnia, G. (827) 41)

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Medial preoptic area; Amygdala; D$_1$ dopamine antagonist; Male sexual behavior; Rat; Fos (Lumley, L.A. (829) 55)

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Angiotensin I; c-*fos*; Drinking; Vasopressin neuron (Xu, Z. (817) 67)

[^{35}S]GTPγS
Brain; Chronic EtOH; Cannabinoid receptor; G-protein (Basavarajappa, B.S. (815) 89)

Striatum; 6-Hydroxydopamine; Receptor–G protein coupling; Supersensitivity (Geurts, M. (841) 135)

[^{35}S]GTPγS binding
5-HT$_{1B}$ receptors; Rat; CP 93,129 (Mize, A.L. (836) 229)

Shape conversion
Oxytocin; Vasopressin; Immunocytochemistry; Microtubule; Cytoskeleton; Plasticity; Glial fibrillary acidic protein (Matsunaga, W. (829) 7)

SHC
Insulin; GRB2; Insulin receptor; Brain; Cerebellum (De L.A. Fernandes, M.L. (826) 74)

Shc
RSK; Sos; Phospholipase A$_2$; Grb2; MAP kinase; Post-synaptic density (Suzuki, T. (840) 36)

Shear stress
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Cerebral blood flow; Cerebrovascular resistance; Cerebral vasodilator tone; Sympathetic activity (Diéguez, G. (851) 133)

Sheep
Oxytocin; Hypothalamus; Adrenocorticotropin; HPA axis; Development (Matthews, S.G. (820) 92)

Brain; Motor cortex; Stimulation; Movement (Grovum, W.L. (851) 252)

SH-EP1 cell
Acetylcholine; Nicotine; Nicotinic acetylcholine receptor; Tetracycline (Peng, J.-H. (825) 172)

Shock
Ethanol; Brain injury; Lactate (Zink, B.J. (837) 1)

Short-latency stretch reflex
Human gait; Stumbling; Phase-dependent reflex modulation (Schillings, A.M. (816) 480)

Short-term plasticity
Sensory system; Somatosensory cortex; Vibrotaction; EEG; Driving response; Microstimulation (Kelly, E.F. (815) 326)

SH-SY5Y human neuroblastoma cell
24-Hydroxycholesterol; Lactate dehydrogenase; Calcium; ROS (Kölsch, H. (818) 171)

Shuttle-box
Rat; Enadoline; κ-Opioid receptor; Pentylenetetrazol; Seizure; Kindling; Learning; Glutamate binding; Neuromorphology (Becker, A. (823) 191)

Sialyltransferase
Methylmercury; Cerebellum; Neural cell adhesion molecule; Development; Polysialylation (Dey, P.M. (845) 139)

Siberian hamster
Photoperiod; Spinal nucleus of the bulbocavernosus; Neuromuscular junctions; Sexual dimorphism (Hegstrom, C.D. (819) 83)

Sickness behavior
Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; TNFα; Corticosterone; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

SIF cell
Pelvic ganglion; Catecholamine synthesizing enzyme; Adrenaline; Acetylcholine; Muscarinic receptor (Prud'homme, M.-J. (821) 141)

Sigma
Aminotetralin; Autoradiography; Catecholamine; Dopamine; Histamine; Phenylaminotetralin; Tyrosine hydroxylase (Booth, R.G. (837) 95)

Sigma receptor
Dimemorfan; Dextromethorphan; Dextrorphan; PCP receptor; Locomotor activity; Anticonvulsant (Chou, Y.-C. (821) 516)

Signal transduction
Extracellular ATP; Ecto-ATPase; Cerebellum; Granule cell layer; Synaptic transmission (Zinchuk, V.S. (815) 111)

Alzheimer's disease; Cell cycle; Grb2; SOS-1 (McShea, A. (815) 237)

Suprachiasmatic; PKC; Hamster; *Arvicanthis*; Circadian; Vasopressin (Bult, A. (816) 190)

Dopamine D_1-like receptor; Phosphoinositide; Phospholipase-C; CDP–diacylglycerol; Inositol phosphate (Undie, A.S. (816) 286)

Cerebral ischemia; CREB; Phosphorylation (Tanaka, K. (818) 520)

Apoptosis; Neurotrophin; Neurite outgrowth; LY294002; Wortmannin (Virdee, K. (837) 127)

Neuronal death; Mitogen-activated protein kinase; Redox status; Retina; Axotomy (Castagné, V. (842) 215)

Ca(2 +)-calmodulin-dependent protein kinase; Nitric-oxide synthase; Lipopolysaccharide; Phosphorylation; NF-kappa B; CREB (Mirzoeva, S. (844) 126)

D2 receptor; Glial fibrillary acidic protein; p38 MAPK; Mitogenesis; Astrocyte; C6 glioma cell; Reactive oxygen species (Luo, Y. (850) 21)

Alzheimer's disease; Adenylyl cyclase; G-protein; Autoradiography; [^{3}H]Forskolin; Guanylyl-5′-imidodiphosphate; Hippocampus; Entorhinal cortex (García-Jiménez, A. (850) 104)

Protein kinase C; Protein kinase M phosphorylation; Calpain; MAP kinase; Tau; Paired helical filaments; Alzheimer's disease (Ekinci, F.J. (850) 207)

Signal transduction protein
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Signal transduction system
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Simple reaction time
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Simultaneous analysis
Absence seizure; Primary generalized epilepsy; Brainstem auditory evoked potential; Lower brainstem; Centrencephalic system (Kohsaka, S. (837) 277)

Single cell labeling
Basal ganglia; Nigrostriatal pathway; Nigropallidal projection; Parkinson's disease; Huntington's disease (Gauthier, J. (834) 228)

Single-cell RT-PCR
Chemosensitivity; Medulla oblongata; Cardiovascular regulation; Electrophysiology; Catecholamines (Kawai, Y. (830) 246)

Outer hair cell; Cochlea; Voltage-dependent chloride channel (Kawasaki, E. (838) 166)

Mouse; Glia; Patch-clamp recording (Schmidt, K. (843) 145)

Single channel recording
Glutamate receptor channel; Neuromodulation; Patch clamp; Decay time constant; Miniature synaptic current (Nishikawa, K.-i. (837) 67)

Single motor unit
Nociception; Withdrawal reflex; Pain; Noxious stimulation; C-fibre response (Mazario, J. (816) 512)

Single photon emission computed tomography
Parkinson's disease; MPTP; Monkey; Dopamine transporter; β-CIT (Eberling, J.L. (832) 184)

Single unit activity
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Single-unit recordings
Acoustic injury; Auditory function; Basilar papilla; Chick; Cochlear nerve; Rate–intensity functions; Recovery of function (Plontke, S.K.-R. (842) 262)

Singularity
Circadian rhythm; Single unit activity; Rat; Oscillator; Clock resetting (Franken, P. (818) 34)

Sinusoidal response
Muscle spindle Ia afferent; Ramp stretch response; Receptor current; Cat (Schäfer, S.S. (819) 89)

Muscle spindle afferent; Golgi tendon organ afferent; Tendon jerk; Information transfer latency (Schäfer, S.S. (843) 36)

Site-specific anti-phospho-pRb antibody
Retinoblastoma protein; Embryonal carcinoma cell; Neuronal differentiation; Cyclin-dependent kinase (Watanabe, Y. (842) 342)

SKF 38393
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SKF 82958
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SCH 23390; Freezing; Mesoamygdaloid dopaminergic system; Stress2i (Guarraci, F.A. (827) 28)

SKF-10,047
Remacemide; Desglycinyl remacemide; MK-801; Anticonvulsant; Phencyclidine (Ahmed, M.S. (827) 46)

SKF-82958
Striatum; In situ hybridization; GABA; Neuropeptide; Amphetamine (Jones, E.A. (836) 99)

Skill
SEP; Writing; Non-dominant hand; Gating (Hoshiyama, M. (833) 10)

Skin blood flow
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Alerting response; Pain stimulation; Trigeminal depressor response; Skin vasomotor reflex (Nalivaiko, E. (847) 343)

Skin vasomotor reflex
Alerting response; Pain stimulation; Trigeminal depressor response; Skin blood flow (Nalivaiko, E. (847) 343)

SKI-1 / S_1P
Proprotein convertase; Subtilase; Neuropeptide; Precursor processing; Cholesterol and fatty acid metabolism (Seidah, N.G. (848) 45)

SK-N-MC
FGF; Oxidation; Hippocampal neuron (Mark, R.J. (830) 88)

SKPYLRFamide
SEPYLRFamide; EPYLRFamide; SEGYLRFamide; SRPYLRFamide; Acetylcholine; Identified neurones; *Helix lucorum* (Pivovarov, A.S. (821) 294)

Sleep
Nitric oxide; Pedunculopontine tegmentum; Cholinergic cell; Wakefulness; Rat (Hars, B. (816) 209)

Auditory cortex; Wakefulness; Unitary activity; In vivo (Peña, J.L. (816) 463)

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Glia; Hypothalamus; Immune response; Cytokine; Infections of the nervous system; African sleeping sickness (Chianella, S. (832) 54)

Serotonin; Hippocampus; Rat; Microdialysis (Park, S.P. (833) 291)

AIDS; Dementia; Visual evoked potential; Auditory evoked potential (Prospéro-García, O. (836) 203)

Hypothalamus; REM; Histamine; Tuberomammillary; Microwire (Steininger, T.L. (840) 138)

Diagonal band of Broca; Basal forebrain; Non-REM; Thermoregulation; Thermosensitivity; GABA (Hays, T.C. (845) 215)

Sleep–wakefulness cycle
EEG; REM sleep; Steroid; Cognitive enhancer (Darnaudéry, M. (818) 492)

Slice
Chronic morphine; LTP; Hippocampus; Withdrawal (Mansouri, F.A. (815) 419)

Slow voltage variation
Extracellular potassium concentrations; Brain damage; Ischemia; Rose bengal; Trolox; Membrane permeability; Chick retina (Netto, M. (827) 221)

Slow-wave sleep
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Slug
Mollusc; Tentacles; Tentacular digits; Olfaction; Local field potential (Ito, I. (815) 121)

Smell
Olfaction; Odor; Functional magnetic resonance imaging; Brain mapping; Gender effect; Cortex (Yousem, D.M. (818) 480)

SNAP-23
SNAP-25; Neurons; Syntaxin; t-SNAREs; Membrane trafficking (Chen, D. (831) 11)

SNAP-25
SNAP-23; Neurons; Syntaxin; t-SNAREs; Membrane trafficking (Chen, D. (831) 11)

SNAP
Nitric oxide (NO); Linsidomine; SNOG; Sodium nitroprusside; L-NAME; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

t-SNAREs
SNAP-25; SNAP-23; Neurons; Syntaxin; Membrane trafficking (Chen, D. (831) 11)

SNOG
Nitric oxide (NO); Linsidomine; SNAP; Sodium nitroprusside; L-NAME; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

Social behaviour
Development; Entorhinal cortex; Spatial memory; Rat; Schizophrenia (Talamini, L.M. (847) 105)

Social interaction
Benzodiazepine; Tolerance; Anxiety; NMDA receptor antagonist (Fernandes, C. (815) 431)

Social interaction test
Juvenile isolation; Social play behavior; Play period; Autoradiography; Opioid receptor mapping; [^{3}H]-Diprenorphine (Van den Berg, C.L. (830) 16)

Social play behavior
Juvenile isolation; Play period; Social interaction test; Autoradiography; Opioid receptor mapping; [^{3}H]-Diprenorphine (Van den Berg, C.L. (830) 16)

Social stress
Nitric oxide; Corticotropin-releasing hormone; Vasopressin; ACTH/Corticosterone (Bugajski, J. (817) 220)

Corticotropin-releasing factor; Aggression; Agonistic behavior (Jasnow, A.M. (846) 122)

SOD1
Axonal transport; Transgenic mouse; Kinesin; Dyncin; ALS (Warita, H. (819) 120)

Sodium
Hypothermia; Hyperthermia; Ischemia; Anoxia; Potassium; ATP (Amorim, P. (844) 143)

Sodium appetite
Adrenergic; Imidazoline; Water intake; Dehydration (Sugawara, A.M. (839) 227)

Sodium butyrate
Neuroblastoma cell; Replication inhibitor; Catecholamine; Biochemical differentiation (Matsui, T. (843) 112)

Sodium channel
Neurotoxicity; Glutamate; Intracellular calcium (Shimojo, M. (815) 131)

Auditory; Cartwheel cell; Brain slice; Transgenic mouse (Chen, K. (847) 85)

Spinal motoneuron; Resurgent current; *Scn8a* (Pan, F. (849) 162)

Sodium channel augmentation
Inflammation; Pain; Dorsal root ganglia (Gould III, H.J. (824) 296)

Sodium channel distribution
Crayfish; Stretch receptor; Action potential; Sodium current (Lin, J.-H. (830) 353)

Sodium channels
Patch clamp; Tract tracing; Potassium channels; Neuronal cell culture (Johnson, R.F. (817) 226)

Sodium current
Crayfish; Stretch receptor; Action potential; Sodium channel distribution (Lin, J.-H. (830) 353)

Sodium cyanate
GSH; GSSG; Glutathione homeostasis; Glutathione reductase; Glutathione peroxidase; Neurotoxicity; Neurodegenerative disease (Tor-Agbidye, J. (820) 12)

Sodium influx
Potassium channel pharmacology; Neuron-glial interaction; Acetylcholine release; Calcium influx; Input resistance (Müller, M. (826) 63)

Sodium nitroprusside
Petrosal ganglion neurons; Nitric oxide; L-NAME; Acetylcholine; Carotid body chemoreceptors (Alcayaga, J. (825) 194)

Nitric oxide (NO); Linsidomine; SNAP; SNOG; L-NAME; 7-Nitroindazole; Push–pull superfusion (Kaehler, S.T. (835) 346)

Sodium–potassium ATPase
Choroid plexus; Cerebral endothelium; Cerebrospinal fluid; Calcium ATPase (Keep, R.F. (815) 200)

Sodium pump
MCAO; Energy metabolism (Jamme, I. (819) 132)

Soleus
Homosynaptic depression; Motoneuron excitability; Human (Komiyama, T. (826) 317)

Solitarius
Glutamate; GABA; Immunogold; Infralimbic; Ultrastructure (Torrealba, F. (820) 20)

Soluble guanylyl cyclase
Nitric oxide; iNOS; Cochlea; Inner ear dysfunction (Hess, A. (830) 113)

Soluble receptor
Tau; gp130; Interleukin-6 receptor complex; Biological marker; ELISA; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

Solution hybridization
Antinociception; Genetics; Selective breeding (Kest, B. (816) 381)

Somatosensory
Human; Posture; Sensory interaction; Vestibular; Galvanic stimulation (Hlavacka, F. (821) 8)

Somatosensory cortex
Sensory system; Short-term plasticity; Vibrotaction; EEG; Driving response; Microstimulation (Kelly, E.F. (815) 326)

Macaque; Topography; Functional magnetic resonance imaging; Anesthesia (Disbrow, E. (829) 167)

Laser-Doppler flowmetry; Sciatic nerve (Ngai, A.C. (837) 221)

Use-dependent plasticity; Inhibition (Siucinska, E. (843) 62)

Visceronociceptive neuron; Intracellular recording; Neurobiotin labeling; Pain (Jinghong, C. (846) 243)

Somatosensory evoked cortical responses
Gating effect; High resolution EEG; Executed complex sequential finger movements (Rossini, P.M. (843) 161)

Somatosensory function
A fiber; C fiber; Topographical mapping; Nociception; Electrical stimulation (Shaw, F.-Z. (824) 183)

Somatosensory stimulation
Scopolamine; FK960; HA-966; Regional cerebral blood flow; Positron emission tomography; Monkey (Tsukada, H. (832) 118)

Somatosensory system
Plasticity; Deafferentation; Nitric oxide; Cerebral glucose utilization (Won Sohn, N. (816) 396)

Touch; Tactile sensation; Thalamic neuron; Volatile anesthetic; Input–output modulation (Detsch, O. (829) 77)

Somatostatin
Sleep; IGF-1; Growth hormone; GHRH; Rats; Rabbits; EEG (Obál Jr., F. (818) 267)

PKCγ; Neurotensin; μ Opioid receptor; Neurokinin 1 receptor; Neuropathic pain (Polgár, E. (833) 71)

Somatostatin-gold
Somatostatin-receptor subtype; Anti-sst antibody; Nanogold (Segond von Banchet, G. (816) 254)

Somatostatin-receptor subtype
Anti-sst antibody; Somatostatin-gold; Nanogold (Segond von Banchet, G. (816) 254)

SOS-1
Alzheimer's disease; Cell cycle; Grb2; Signal transduction (McShea, A. (815) 237)

Sos
RSK; Phospholipase A_2; Shc; Grb2; MAP kinase; Post-synaptic density (Suzuki, T. (840) 36)

SP
GDNF; Immunohistochemistry; Trigeminal ganglion; Trigeminal sensory nucleus; Man; CGRP; trkA (Quartu, M. (847) 196)

Spatial learning
Olivocerebellar pathway; Spatial memory; Harmaline; Rat (Meignin, C. (824) 277)

Aging; Corticosterone; Fischer-344 × Brown Norway rat; Hippocampus; Memory (Hebda-Bauer, E.K. (827) 93)

Corpus callosum; Knockout; ES cell; 129 mouse; C57 mouse; Non-spatial learning (Balogh, S.A. (836) 38)

Galanin; Acetylcholine; Serotonin; Cognition; Passive avoidance; Microdialysis (Ögren, S.O. (848) 174)

Spatial memory
Hypothermia; Traumatic brain injury; Cerebral ischemia; Hippocampus; Excitotoxicity; Rat (Jenkins, L.W. (817) 132)

Olivocerebellar pathway; Spatial learning; Harmaline; Rat (Meignin, C. (824) 277)

Development; Entorhinal cortex; Social behaviour; Rat; Schizophrenia (Talamini, L.M. (847) 105)

Spatial navigation
Acetylcholine; $Serotonin_{1A}$ receptor; $Serotonin_2$ receptor; EEG; Alzheimer's disease (Dringenberg, H.C. (837) 242)

Specific gravity
Hypoxia preconditioning; Kainic acid; Status epilepticus; Seizure; Brain edema (Emerson, M.R. (825) 189)

Spectral analysis
Phrenic nerve; Laryngeal nerve; Respiratory regulation; Sudden infant death syndrome; Development (Kocsis, B. (818) 180)

Alpha rhythm; Forced oscillation; Human electroencephalogram; Time series analysis (Gebber, G.L. (818) 556)

Spectrin
Protein synthesis; Protein turnover; Cytoskeletal assembly; Hippocampal neuron (Sangerman, J. (849) 128)

Spermidine
[^{3}H]MK-801 binding; NMDA channel; Ferrous ion; Development (Ogita, K. (818) 548)

Spermine
NMDA receptor; Chick retina (Calderón, F. (844) 150)

Sphenopalatine ganglion
Otic ganglion; Neuropeptide Y; Vasoactive intestinal peptide; Calcitonin gene-related peptide; Human (Uddman, R. (826) 193)

Spider venom
Glutamate uptake; Synaptosome; *Phoneutria nigriventer*; Toxin (Mafra, R.A. (831) 297)

Spike
Fura-2; Rat; Visual cortex; Voltage-dependent calcium channel (Isomura, Y. (832) 175)

Spinal cord
Lectin; Sprouting; Axotomy; Dorsal column nuclei; Dorsal root ganglion (Shortland, P. (815) 206)

Ascending spinal projection; Optic tectum; Facial lobe; Vagal lobe; Goldfish (Prasada Rao, P.D. (817) 209)

Motoneuron; Acetylcholine; Muscarinic receptor; Immunocytochemistry; Confocal microscopy (Welton, J. (817) 215)

Sympathetic preganglionic neurone (SPN); Dopamine (DA); SKF 38393 (Gladwell, S.J. (818) 397)

Pelvic nerve; Ascending tract; Mesencephalon; Electrical stimulation; Extracellular unit recording; Micturition (Duong, M. (819) 108)

Pain; Brush; Fos; Dorsolateral funiculus; Rat (Wei, F. (820) 112)

Cholecystokinin; Opioid; Tolerance; Microdialysis (Lucas, G.A. (821) 79)

Glutamate; NMDA; Nitric oxide; Nociception; Voltammetry (Rivot, J.-P. (821) 101)

Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Munglani, R. (822) 210)

Immediate early gene: c-*fos*; Hyperalgesia: mechanical; Pain: neuropathic; Peripheral nerve injury: chronic constriction injury; NMDA antagonist: MK-801 (Hudspith, M.J. (822) 220)

Carrageenin; Inflammation; Opioid receptor antagonist; Morphine; c-Fos (Catheline, G. (824) 105)

Microglia; OX-42; OX-6; Gracile nucleus; Formalin; Rat (Fu, K.-Y. (825) 59)

Primary afferent depolarization; Dorsal root reflex; Locomotion; Cat (Gossard, J.-P. (825) 132)

Apamin; Caesium; Tetraethylammonium; Electrophysiology (Cazalets, J.-R. (827) 185)

Diabetes mellitus; Norepinephrine; 3-Methoxy-4-hydroxyphenylglycol; Alpha adrenoceptor (Bitar, M.S. (830) 1)

Capsaicin; Substantia gelatinosa; Synaptic transmission; C-afferent; Whole-cell voltage-clamp recording (Yang, K. (830) 268)

Nerve injury; Nociception; Pain (Xu, I.S. (833) 251)

Diabetes; Calcium; Allodynia; Hyperalgesia; Ryanodine; Thapsigargin (Ohsawa, M. (833) 278)

NAP-22; Synapse; Synapsin; Synaptobrevin (Iino, S. (834) 66)

Connective tissue growth factor; Brain; Astrocyte; Immunohistochemistry (Kondo, Y. (834) 146)

c-Fos; RB101; Carrageenin; μ-Opioid receptor; β-Funaltrexamine (Le Guen, S. (834) 200)

Receptor mismatch; Nociception; Tachykinin (McLeod, A.L. (836) 1)

Sacral; Motoneuron; Cytotoxicity; NOS1 (Pullen, A.H. (836) 173)

Acetylcholine; Dorsal horn; Muscle contraction; Blood pressure (Hand, G.A. (837) 143)

Nociceptin; Receptor; Autoradiography; Rat (Gouardères, C. (838) 85)

Wobbler mouse; GAP-43 mRNA; Glucocorticoid; 21-Aminosteroid; Amyotrophic lateral sclerosis; In situ hybridization (González Deniselle, M.C. (841) 78)

Nociceptin; Hyperalgesia; Tachykinin NK_1 receptor antagonist; Intrathecal injection (Sakurada, C. (841) 85)

Urinary bladder inflammation; Neurotrophic factor; Dorsal root ganglia; Sacral parasympathetic nucleus; Lateral collateral pathway (Vizzard, M.A. (844) 174)

Hypothalamic paraventricular nucleus; Leptin; Fos immunoreactivity (Badoer, E. (844) 210)

Neuropeptide; Cholecystokinin; Morphine; Opioid; Neuropathy; Inflammation; Microdialysis; Immunohistochemistry (Wiesenfeld-Hallin, Z. (848) 78)

NMDA receptor; AMPA receptor; Glutamate receptor; Type 2 diabetes mellitus; Obese–diabetic mouse (Li, N. (849) 34)

Spinal cord injury
Calpain; Calpastatin; Calcium; Neutral proteinase (Ray, S.K. (816) 375)

Functional recovery; Motor evoked potential; Reticulospinal; 4-AP (Gruner, J.A. (816) 446)

Dorsal column; Anoxic injury; Ca^{2+} channel; Ca^{2+} channel antagonist (Imaizumi, T. (817) 84)

Spinal cord motor neuron
Amyotrophic lateral sclerosis; RET; GDNFR-α; mRNA (Mitsuma, N. (820) 77)

Spinal dorsal horn
c-Fos expression; Formalin test; Descending inhibition; Phentolamine; Cyproheptadine; Naloxone; Intrathecal (Liu, R.-J. (830) 183)

Nucleus submedius; Periaqueductal gray; Visceral nociception; Colorectal distension; Rat (Okada, K. (834) 112)

Spinalization
Wide dynamic range neuron; Post discharge; LTP; Sciatic nerve block; Pain (Svendsen, F. (816) 487)

Spinal motoneuron
Sodium channel; Resurgent current; *Scn8a* (Pan, F. (849) 162)

Spinal nucleus of the bulbocavernosus
Siberian hamster; Photoperiod; Neuromuscular junctions; Sexual dimorphism (Hegstrom, C.D. (819) 83)

Spinal nucleus of the trigeminal nerve
Glossopharyngeal nerve; Nucleus tractus solitarius; Chemoreceptor; Baroreceptor; Respiration; Arousal (Blessing, W.W. (816) 405)

Spinal trigeminal nucleus
Calbindin D28k; Substantia gelatinosa; Intracellular staining; Biocytin; Immunohistochemistry; Nociception; Rat (Li, Y.-Q. (840) 179)

***S*(−)-pindolol**
Dopamine release; Ipsapirone; 5-HT_{1A} receptor; Nucleus accumbens and striatum; In vivo microdialysis; Rat (Ichikawa, J. (842) 445)

Spiral ganglion
Metachromatic leukodystrophy; Arylsulfatase A; Brainstem auditory-evoked potential; Transgenic mouse (D'Hooge, R. (847) 352)

Spiral ganglion neurons
Inner ear; Cochlear efferent system; Cholinergic receptor; Muscarinic receptor; Calcium signaling (Rome, C. (846) 196)

Spiral ligament
Gap junction; Ion transport; Endolymphatic potential; Fibrocyte; Stria vascularis (Xia, A.-P. (846) 106)

Spleen
Secretogranin II; Secretoneurin; Proteolysis; Secretion; Perfusate (Liang, F. (818) 459)

Heart; Kidney; Liver; Intestine; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (830) 226)

Heart; Kidney; Liver; Myocardial infarction; Inflammation; Neuron; Polymerase chain reaction (Yasojima, K. (833) 297)

Spontaneous activity
Thalamocortical system; NMDA receptor; Organotypic coculture; Low magnesium (Hentschke, H. (830) 123)

DRG; Neuropathic pain (Liu, X. (849) 244)

Spontaneous hypertensive rat
Cocaine; Sensitization; Locomotor activity; Strain difference; Sex difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat (Cailhol, S. (842) 200)

Spontaneously hypertensive rat
Blood pressure; Calcium/calmodulin; Dopamine receptor; Dopamine synthesis in brain; Exercise (Akiyama, K. (823) 154)

Spontaneous motor activity
Fatigue; TGF-β; Exercise; Hydra (Inoue, K. (846) 145)

SPP
TNF; Ceramide; Mesencephalic neuron; Neuroprotection; Parkinson's disease (Shinpo, K. (819) 170)

Spreading cortical depression
Magnetoencephalography; Electrocorticography; Electroencephalography; Migraine; Headache (Bowyer, S.M. (843) 71)

Headache; Migraine; Magnetoencephalography; Electroencephalography; Electrocorticography; Swine; Pig (Bowyer, S.M. (843) 79)

Spreading depression
Carbon monoxide poisoning; Hypoxic depolarization; Hippocampus; Place navigation; Neuroprotective effect (Koroleva, V.I. (816) 618)

Fastigial cerebellar nucleus; Neuroprotection; Preconditioning; Cerebral focal ischemia; Periinfarct depolarization (Golanov, E.V. (818) 304)

Glutamate; Amino acid; Blood flow; Cerebral cortex (Iijima, T. (818) 553)

Na^+,K^+ATPase; Ouabain; Hypoxia; Ischemia; Hippocampus; Brain slice (Balestrino, M. (838) 37)

Transient ischemic depolarization; Anoxic depolarization; Middle cerebral artery occlusion; Rat (Nallet, H. (842) 148)

Central nervous disorder; Lubeluzole; Neuronal lesion; Retina (Wiedemann, M. (842) 243)

Sprouting
Lectin; Axotomy; Spinal cord; Dorsal column nuclei; Dorsal root ganglion (Shortland, P. (815) 206)

Retinal ganglion cell; Regeneration; Peripheral nerve; Hamster (Lai, M.Y. (823) 241)

Dopaminergic lesion; Parkinson's disease; Transplantation; Striatum (Lopez-Martin, E. (842) 119)

Squid giant synapse
Glutamate; Receptor (Di Cosmo, A. (839) 213)

Squirrel monkey
Auditory cortex; Caudate nucleus; Brain evolution (Borgmann, S. (836) 225)

Sr^{2+}
Apical dendrite; Brain slice; Hallucinogen; Synaptotagmin III; Whole-cell recording (Aghajanian, G.K. (825) 161)

SRIF
Peptidergic neuron; Neurotrophin; Neuropeptide Y; BDNF; gp120; Brain (Barnea, A. (815) 349)

SRPYLRFamide
SEPYLRFamide; EPYLRFamide; SEGYLRFamide; SKPYLRFamide; Acetylcholine; Identified neurones; *Helix lucorum* (Pivovarov, A.S. (821) 294)

SS-ir neuron
Sex difference and differentiation; GHRH-ir neuron; Morphometry; Immunohistochemistry; Hypothalamus (Nurhidayat, (821) 309)

Staging
Autoradiography; cAMP-dependent protein kinase; Human brain; Entorhinal cortex; Hippocampus; Alzheimer's disease; Neuropathological change; Amyloid deposit (Bonkale, W.L. (818) 383)

Startle
Audiogenic seizure; Deep layers of superior colliculus; Seizure network; Habituation; Genetically epilepsy-prone rat (Faingold, C.L. (815) 250)

Auditory evoked potential; P1 potential; Prepulse inhibition; Sensory gating; Pedunculopontine nucleus (Miyazato, H. (822) 60)

Isolation rearing; Rat; Locomotor activity; Prepulse inhibition; Synaptophysin; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Status epilepticus
Hypoxia preconditioning; Kainic acid; Seizure; Brain edema; Specific gravity (Emerson, M.R. (825) 189)

Seizure; Hippocampus; Topiramate; Neuroprotection; Rat (Niebauer, M. (837) 263)

Cerebral glucose metabolism; 2-Deoxyglucose; Perforant path stimulation; Rat (Pereira de Vasconcelos, A. (838) 110)

Calcium; NMDA receptor; Calcium channel; Epilepsy; Intracellular calcium (Pal, S. (851) 20)

Staurosporine
Apoptosis; Synaptogenesis; Tissue plasticity; Rat; Middle cerebral artery occlusion (Chopp, M. (828) 197)

Cell death; Excitotoxicity; Regeneration; Glutamate (Small, D.L. (842) 376)

Stellation
Tyrosine kinase inhibitor; Astrocyte; Culture (Abe, K. (837) 306)

ATP; Rat cortical astrocyte; Purinoceptor; Culture; Development (Abe, K. (850) 150)

Stem cell
Retina; Rod photoreceptor; Progenitor; Differentiation; Electrophysiology (Ahmad, I. (831) 1)

Stereology
Acquired immunodeficiency syndrome; Human immunodeficiency virus; Neocortex; Neuronal loss; Neuronal size distribution; Optical dissector; Rotator (Fischer, C.P. (828) 119)

S-100β; Basic fibroblast growth factor; Immunohistochemistry; Fractionator (Gomide, V.C. (835) 162)

Degeneration; Hemispherectomy; Subcortical; Striatum; Saccadic system (Théoret, H. (835) 354)

Stereoselectivity
Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; P-glycoprotein; Selective serotonin reuptake inhibitor; Transport (Rochat, B. (831) 229)

Stereotypy
Amphetamine; Dopamine receptor; Binge; Quinpirole; SKF 82958 (Kuczenski, R. (822) 164)

Compulsive behavior; Obsessive compulsive disorder; Transgenic mouse; Corticostriatal; Glutamate (Campbell, K.M. (833) 216)

Steroid
Sleep–wakefulness cycle; EEG; REM sleep; Cognitive enhancer (Darnaudéry, M. (818) 492)

Steroid 5α-reductase mRNA
Gene expression; One-step RT-PCR; Serum deprivation; Rat C6 glioma cell (Morita, K. (830) 179)

Steroid-induced neural plasticity
Testosterone; Substance P-like immunohistochemisrty; Hypothalamus; Weakly electric fish; *Apteronotus leptorhynchus* (Dulka, J.G. (826) 1)

Steroids
Alzheimer's disease; Basal forebrain; Cholinergic; Ovariectomy; Gonadal (Mufson, E.J. (849) 253)

Stimulation
Focal ischemia; ATP-dependent potassium channel; Cerebellar fastigial nucleus; Pre-conditioning; Glibenclamide (Golanov, E.V. (842) 496)

Brain; Motor cortex; Movement; Sheep (Grovum, W.L. (851) 252)

Stimulation-induced locomotor response
Ventral tegmental area; Facilitation; Bicuculline; Phaclofen; Muscimol; Contralateral effect (Trojniar, W. (842) 419)

Stobadine
Reactive oxygen species; 21-Aminosteroid; Trolox; α-Tocopherol; Deferoxamine; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Storage granule
Neuroendocrine cell; Secretion; Proteolytic processing; Protein release; Protease; Tissue plasminogen activator; AtT20 cell (Santell, L. (816) 258)

Store-operated Ca^{2+} entry
Human microglia; Ca^{2+} fluorescence microscopy; Platelet-activating factor; SERCA; Cyclopiazonic acid (Wang, X. (842) 159)

Strain
Trangenic; Mouse; Electrophysiology; Dentate gyrus (Bampton, E.T.W. (841) 123)

Strain difference
Cocaine; Sensitization; Locomotor activity; Sex difference; Wistar–Kyoto rat; Wistar–Kyoto hyperactive rat; Spontaneous hypertensive rat (Cailhol, S. (842) 200)

Streptozotocin
Calcitonin gene-related peptide; Substance P; Trigeminal ganglion (Troger, J. (842) 84)

Streptozotocin-induced diabetes
Global complete cerebral ischemia; Lactic acidosis; Intracellular pH; High-energy phosphate; Selective neuronal vulnerability (Hoxworth, J.M. (821) 467)

Stress
Fos immunohistochemistry; Cerebral cortex; Endotoxin; Restraint; Hypothalamic paraventricular nucleus (Yokoyama, C. (816) 267)

Corticotropin-releasing factor; Aging; Rat; Brain; Messenger RNA (Kasckow, J.W. (822) 228)

Arginine–vasopressin; Aging; Rat; Brain; Corticosterone; ACTH; Corticotropin-releasing factor (Mulchahey, J.J. (822) 243)

Immediate early gene; c-*fos*; Learned helplessness; Lateral septum (Steciuk, M. (822) 256)

5α pregnan-3α-ol-20-one (3α,5α-THP); Benzodiazepine; Progesterone; Estrogen (Wilson, M.A. (824) 136)

Opioid; Pain facilitation; Antinociception; Pronociception; Anti-analgesia; Periaqueductal gray; Tail-flick test (Hawranko, A.A. (824) 251)

5-HT-moduline; Serotonin; 5-HT_{1B} receptor; Kinetic (Bonnin, A. (825) 152)

Immunohistochemistry; Serotonin; Raphe nuclei; Fos; Anxiety; Depression (Grahn, R.E. (826) 35)

Lithium; Rubidium; Escape deficit; Dopamine; Microdialysis (Gambarana, C. (826) 200)

Food deprivation; Memory; Object recognition; Monoamines; Amino acids (Beck, K.D. (830) 56)

Dopamine; Norepinephrine; Medial prefrontal cortex; Striatum; Nucleus accumbens; Corticosterone (Lindley, S.E. (832) 152)

Microdialysis; Glutamate; Amino acid (Timmerman, W. (833) 150)

Anxiety; Defense behavior; Diazepam; Orphanin FQ (Griebel, G. (836) 221)

Predator; Corticosterone; Norepinephrine; Dopamine; Serotonin; Limbic excitability; Kindling (McIntyre, D.C. (840) 65)

Corticotropin releasing factor; Substance P; Pressor response; Nucleus amygdaloideus centralis; Nucleus ventromedialis; Emotion (Wu, J.-S. (842) 392)

α_1 Adrenoceptor; mRNA; Hypothalamus; Midbrain; Reverse transcriptase–polymerase chain reaction; Hypothalamic–pituitary–adrenal axis (Miyahara, S. (843) 130)

CRF; CRF-knockout; Behavior; Interleukin-1; Corticosterone (Dunn, A.J. (845) 14)

HSP27; Glucocorticoid; Protein synthesis; Heat shock; Cerebellum (Barr, C.S. (847) 9)

Interleukin-6; Amphetamine; Sensitization; Locomotion; Schizophrenia (Zalcman, S. (847) 276)

NK_1 receptor; Amygdala; Substance P; Receptor internalisation (Smith, D.W. (848) 90)

Corticotropin-releasing factor; Urocortin; Anxiety; Drug addiction (Koob, G.F. (848) 141)

Dura; Estradiol; Histamine; Mast cell; Migraine; Neuron; Neuropeptide; Secretion; Substance P (Rozniecki, J.J. (849) 1)

Stress2i
SCH 23390; SKF 82958; Freezing; Mesoamygdaloid dopaminergic system (Guarraci, F.A. (827) 28)

Stress-induced sensitization
Fos; Cardiovascular responsivity; Brain–gut interaction; Paraventricular nucleus of the hypothalamus (Bruijnzeel, A.W. (819) 15)

Stress-regulated protein
Oligodendrocytes; Myelination; Ferritin; Iron (Cho, S.S. (816) 229)

Stress response
Heat shock protein; Hsp70 (Brown, I.R. (821) 333)

Stretch
Kinaesthesia; Muscle spindle; Fusimotor; Contraction; Sensation (Wise, A.K. (821) 87)

Stretch receptor
Crayfish; Action potential; Sodium current; Sodium channel distribution (Lin, J.-H. (830) 353)

Stretch sensitivity
Golgi tendon organ; Classification; Cat (Schäfer, S.S. (846) 210)

Striatal interneuron
G-protein coupled receptor; Basal ganglia; Medium spiny neuron; Immunocytochemistry; Laser scan confocal microscopy (Yung, K.K.L. (830) 345)

Striatum
MAO B inhibitor; Selegiline; In vivo microdialysis; Dopamine; Primate (Kaseda, S. (815) 44)

Indole acids; Glutathione; Lipid peroxidation; Neurodegeneration; Neuroprotection (Poeggeler, B. (815) 382)

Dopamine; Intracranial microdialysis; Fischer 344 rat; D-Amphetamine; Potassium; Basal level; Aging (Gerhardt, G.A. (816) 68)

Acetylcholine; AF64A; $GABA_A$ receptor; $GABA_B$ receptor; Rat (Ikarashi, Y. (816) 238)

Neurotransmitter; Apoptosis; Growth factor; Tissue culture (Iacovitti, L. (816) 276)

Nucleus accumbens; Addiction; Alcohol; Self-administration; Basal ganglia; Rat; In vivo electrophysiology; Ensemble (Janak, P.H. (817) 172)

Dopamine release; Presynaptic D_2 receptor; L-DOPA; Quinpirole; Microdialysis (Maeda, T. (817) 185)

Anesthetic requirement; MAC; Dopamine content; In vivo microdialysis (Onozawa, H. (817) 192)

Oxidative stress; Antibodies; Nitric oxide; Cortex; Thalamus (Maybodi, L. (817) 199)

Fos; D2 dopamine receptor; NMDA receptor (Pollack, A.E. (818) 543)

Phencyclidine; *N*-Methyl-D-aspartate; c-*fos*/FLI; Apoptosis (Griffiths, M.R. (821) 177)

Morphine; Self-administration; Proenkephalin; Nucleus accumbens; Lewis; Fischer 344; Opioid; Vulnerability (Martín, S. (821) 350)

Glutamate; GABA; Integration; Modulation (Kiyatkin, E.A. (822) 88)

Ibogaine; Methamphetamine; Hyperthermia; Heat-shock-protein; Caudate nucleus; Neurotoxicity (Yu, X. (823) 213)

Immediate early gene; c-*fos*; Globus pallidus; Entopeduncular nucleus; Subthalamic nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

GDNF; Dopamine; Substantia nigra; Methamphetamine; Neurotrophic factor; In vivo microdialysis (Cass, W.A. (827) 104)

Interleukin-1; AMPA; Excitotoxicity; Temperature; Fever; Neurodegeneration (Grundy, R.I. (830) 32)

Tyrosine hydroxylase; Aromatic L-amino acid decarboxylase; Dopamine metabolism; Dopamine receptor agonist; Dopamine receptor antagonist; Tolerance; Midbrain (Cho, S. (830) 237)

Stress; Dopamine; Norepinephrine; Medial prefrontal cortex; Nucleus accumbens; Corticosterone (Lindley, S.E. (832) 152)

Electrophysiology; Dopamine; Parkinson's disease; Freely moving rat (Kish, L.J. (833) 58)

Basal ganglia; Subthalamic nucleus; Presupplementary motor area; Supplementary motor area; Motor control (Inase, M. (833) 191)

Dopamine; Mitochondria; Excitotoxicity; Reactive oxygen species; Monoamine oxidase (Maragos, W.F. (834) 168)

Global ischaemia; Ascorbic acid; Neuroprotection; Gerbil; Rat; Hippocampus; Dopamine (Stamford, J.A. (835) 229)

Degeneration; Hemispherectomy; Subcortical; Stereology; Saccadic system (Théoret, H. (835) 354)

In situ hybridization; GABA; Neuropeptide; Amphetamine; SKF-82958 (Jones, E.A. (836) 99)

Methamphetamine; Peroxynitrite; Dopamine; 3-Nitrotyrosine; Oxidative stress (Imam, S.Z. (837) 15)

Lactic acid; Dopamine; Glutamate; NMDA receptors; Hydroxyl radicals (Remblier, C. (837) 22)

Parkinson's disease; Sertoli cell; Transplantation; Substantia nigra (Liu, H.-W. (838) 227)

Cerebral cortex; Thalamus; Connection; Medial agranular (Reep, R.L. (841) 43)

[^{35}S]GTPγS; 6-Hydroxydopamine; Receptor–G protein coupling; Supersensitivity (Geurts, M. (841) 135)

Kainic acid; AMPA; NBQX; Propidium iodide; Neocortex (Kristensen, B.W. (841) 143)

Dopaminergic lesion; Parkinson's disease; Sprouting; Transplantation (Lopez-Martin, E. (842) 119)

ACh release; Dopamine; GABA release; Glutamate; NMDA; Parkinson's disease (Hanania, T. (844) 106)

Nociceptin; Orphanin FQ; Microdialysis; Acetylcholine; [Phe$^1\Psi$(CH$_2$–NH)Gly^2] nociceptin-(1-13)–NH$_2$ (Itoh, K. (845) 242)

Dopamine; Receptor; Monkey; MPTP (Decamp, E. (847) 134)

Ibogaine; Cocaine; Dynorphin; Neurotensin; Nucleus accumbens (Alburges, M.E. (847) 139)

Reeler gene; Reelin; Compartment; Development; Rat (Nishikawa, S. (850) 244)

Oligemic episode; Dopamine; D1RmRNA; Apomorphine; Aging (Heim, C. (851) 235)

Stria vascularis
Gap junction; Ion transport; Endolymphatic potential; Fibrocyte; Spiral ligament (Xia, A.-P. (846) 106)

Striosome
Behavioral sensitization; DOPA-induced dyskinesia; Matrix; Neuronal plasticity (Saka, E. (825) 104)

Stroke
K^+; Hydrogen clearance; Hypothermia; Hyperthermia; Infarction (Sick, T.J. (821) 400)

Blood–brain barrier; Immunohistochemistry; Infarction (Remmers, M. (827) 237)

Blood–brain barrier (BBB); E-Cadherin; Calcium-dependent cell adhesion; Hypoxia/aglycemia (Abbruscato, T.J. (842) 277)

Albumin; Global cerebral ischemia; Neuroprotection (Belayev, L. (845) 107)

Stroke-prone spontaneously hypertensive rat
p53; Neuron; Focal ischemia; Apoptosis (Watanabe, H. (837) 38)

Strychnine
Zinc; Glycine; Cl^- current; Perforated patch recording (Doi, A. (816) 424)

Locomotion; Reflex; Presynaptic inhibition; Development (Jiang, Z. (816) 493)

Stumbling
Human gait; Short-latency stretch reflex; Phase-dependent reflex modulation (Schillings, A.M. (816) 480)

Subarachnoid hemorrhage
Lactic acid; Free fatty acid (Gewirtz, R.J. (840) 84)

Cerebral vasospasm; Amyloid precursor protein; Nitric oxide; Neurological deficit; Animal model (Ryba, M.S. (850) 225)

Subcellular targeting
Development; Neuron; Choroid plexus (Fields, H.M. (846) 260)

Subcortical
Degeneration; Hemispherectomy; Stereology; Striatum; Saccadic system (Théoret, H. (835) 354)

Subcutaneous bee venom injection
NMDA receptor; Non-NMDA receptor; Wide-dynamic-range neuron; Dorsal horn; Persistent nociception; Tissue injury (Chen, J. (844) 98)

Subdural hematoma
Intracerebral hemorrhage; Cerebral ischemia; Brain edema; Cerebral blood flow (Patel, T.R. (829) 125)

Subfornical organ
Electrophysiology; Drinking; RAMPs; Receptors; Thirst (Riediger, T. (837) 161)

Angiotensin (ANG) I; Angiotensin (ANG) II; Angiotensin-converting enzyme (ACE); Converting enzyme inhibitor (CEI); Circumventricular organ; Drinking; Pressor response (Robinson, M.M. (842) 55)

Orexin; Intracerebroventricular administration; Drinking behaviour; Fluid homeostasis; Lateral hypothalamus (Kunii, K. (842) 256)

Angiotensin II; Expression profiling; Estrogen; Water intake; Pituitary (Kisley, L.R. (844) 34)

Subgeniculate thalamic nucleus
2-Fluoro-2-deoxy-D-[^{14}C(U]glucose; GABA$_A$-receptor agonist; GABA$_A$-receptor antagonist; Medial geniculate nucleus (Richter, K. (831) 184)

Submucous plexus
Guinea pig; Distal colon; 5-Hydroxytryptamine; Nitric oxide; Immunocytochemistry (Kadowaki, M. (831) 288)

Substance P
Hypertension; Sympathetic preganglionic neurons (Solomon, S.G. (815) 116)

Tachykinin NK$_1$ receptor antagonist; GR205171; Vomiting; Retching; Salivation; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

Gerbil; Rat; Parvocellular paraventricular nucleus; Immunohistochemistry; Dehydration (Kang, T.-C. (820) 101)

Nucleus of the solitary tract; Respiration; Aging; NK1 receptor; Autoradiography (Mazzone, S.B. (826) 139)

Nitric oxide synthase; Calcitonin gene related peptide; Inferior mesenteric ganglion; Inferior mesenteric artery; Inferior mesenteric vein (Zheng, Z.L. (827) 113)

Deprivation; Intracerebroventricular; Food intake; Alteration (Dib, B. (830) 38)

Cerebral blood vessel; Substance P receptor (neurokinin-1 receptor); Neurokinin (Shimizu, T. (830) 372)

Hypoglossal; Protruder; Retractor; Motoneuron; Intracellular (Gatti, P.J. (834) 155)

Circadian rhythm; Suprachiasmatic nucleus; Glutamate release; NMDA receptor antagonist; Firing rhythm (Hamada, T. (836) 190)

Calcitonin gene-related peptide; Streptozotocin; Trigeminal ganglion (Troger, J. (842) 84)

Corticotropin releasing factor; Pressor response; Nucleus amygdaloideus centralis; Nucleus ventromedialis; Emotion; Stress (Wu, J.-S. (842) 392)

NK_1 receptor; Amygdala; Receptor internalisation; Stress (Smith, D.W. (848) 90)

Dura; Estradiol; Histamine; Mast cell; Migraine; Neuron; Neuropeptide; Secretion; Stress (Rozniecki, J.J. (849) 1)

Substance P expression
Resiniferatoxin; Vanilloid receptor; Desensitization to vanilloid; Tachykinin NK-1 receptor expression (Szallasi, A. (815) 177)

Substance P-like immuno-histochemisrty
Steroid-induced neural plasticity; Testosterone; Hypothalamus; Weakly electric fish; *Apteronotus leptorhynchus* (Dulka, J.G. (826) 1)

Substance P receptor (neurokinin-1 receptor)
Cerebral blood vessel; Substance P; Neurokinin (Shimizu, T. (830) 372)

Substantia gelatinosa
Capsaicin; Spinal cord; Synaptic transmission; C-afferent; Whole-cell voltage-clamp recording (Yang, K. (830) 268)

Calbindin D28k; Spinal trigeminal nucleus; Intracellular staining; Biocytin; Immunohistochemistry; Nociception; Rat (Li, Y.-Q. (840) 179)

substantia innominata
Acetylcholine; Cerebral blood flow; Cholinergic system; GABA; Rat (Barbelivien, A. (834) 223)

Substantia innominata
Cerebral blood flow; Cerebral glucose use; Acetylcholine; Microdialysis; Rat (Barbelivien, A. (840) 115)

Substantia nigra
Monkey; Parkinson's disease; Dopamine; Microdialysis (Gerhardt, G.A. (817) 163)

Immediate early gene; c-*fos*; Striatum; Globus pallidus; Entopeduncular nucleus; Subthalamic nucleus; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

GDNF; Dopamine; Striatum; Methamphetamine; Neurotrophic factor; In vivo microdialysis (Cass, W.A. (827) 104)

Parkinson's disease; Sertoli cell; Transplantation; Striatum (Liu, H.-W. (838) 227)

Ventral tegmental area; Calcium-binding protein; Dopamine; Tyrosine hydroxylase (Nemoto, C. (846) 129)

Adeno-associated virus; Brain-derived neurotrophic factor; Green fluorescent protein; Locomotor behavior; Parkinson's disease (Klein, R.L. (847) 314)

Glutamate receptor; Dopamine (Fan, X.-D. (850) 79)

Substantia nigra pars reticulata
GABA; IPSC; Tiagabine; CGP55845A (Chan, P.K.Y. (838) 18)

Movement-related cell; Motor behavior; Amphetamine (Gulley, J.M. (845) 68)

Subthalamic nucleus
Apoptosis; Huntingtin protein; Huntington's disease (O'Kusky, J.R. (818) 468)

Immediate early gene; c-*fos*; Striatum; Globus pallidus; Entopeduncular nucleus; Substantia nigra; Dopamine; 6-Hydroxydopamine (Wirtshafter, D. (824) 81)

Basal ganglia; Striatum; Presupplementary motor area; Supplementary motor area; Motor control (Inase, M. (833) 191)

Immediate-early genes; c-*fos*; Neuroleptic; Dopamine; Primate (Wirtshafter, D. (835) 154)

Blood pressure; Electrical stimulation; Heart rate; Respiration (Ángyán, L. (847) 130)

Subtilase
Proprotein convertase; Neuropeptide; Precursor processing; SKI-1/S_1P; Cholesterol and fatty acid metabolism (Seidah, N.G. (848) 45)

Subunit assembly
$GABA_C$ receptor; Rho subunit; Heterologous expression (Enz, R. (846) 177)

Subunit expression
$GABA_A$ receptor; Embryonic carcinoma cell; Ethanol; Imaging; RT-PCR (Chistina Grobin, A. (827) 1)

Subunits 2 and 3 of amino-3-hydroxy-5-methyl-4-isoxazolepropionate (AMPA) type glutamate receptor (GluR2/3)
Mossy cell; Calretinin; Dorsoventral difference; Hippocampus; Mouse (Fujise, N. (816) 500)

Succinate dehydrogenase
3-Nitropropionic acid; Neurotoxicity; Neuron; Astrocyte; NMDA-receptor (Olsen, C. (850) 144)

Suckling
Lactation; Neuropeptide Y; Arcuate nucleus; Retrograde tracing (Li, C. (824) 267)

Sucrose
Cell culture; Blood–brain barrier; Porcine; Transport; Retinoid (Franke, H. (818) 65)

Neuropeptide Y; DAMGO; Paraventricular nucleus (Giraudo, S.Q. (834) 160)

Sudden infant death syndrome
Phrenic nerve; Laryngeal nerve; Respiratory regulation; Spectral analysis; Development (Kocsis, B. (818) 180)

Sulfatide
Oligodendrocyte; Demyelination; Remyelination; Jimpy ice; Galactocerebroside (Cammer, W. (837) 188)

Sumatriptan
Nitric oxide; Superoxide; Migraine (Read, S.J. (847) 1)

Superficial laminae
Dorsal rhizotomy; Autoradiography; Deafferentation; Anandamide (Hohmann, A.G. (822) 17)

Superior colliculus
Audiogenic seizure; Seizure network; Genetically epilepsy-prone rat; Pontine reticular formation; Inferior colliculus (Faingold, C. (821) 392)

Acoustic startle response; GABA; Picrotoxin; Prepulse inhibition; Rat; Schizophrenia; Sensorimotor gating (Fendt, M. (833) 81)

Superior laryngeal nerve
Respiratory control; Pre-Bötzinger complex; Cat; Afferent integration (Anderson, M.K. (831) 306)

Superior olivary complex
Immediate-early gene; Inferior colliculus; Medial geniculate body; Auditory cortex; Behavior (Carretta, D. (841) 170)

Superior paraolivary nucleus
Medial superior olive; Intracellular labeling; Prelabeling; Tissue slice; Gerbil (Kuwabara, N. (846) 59)

Superior sagittal sinus
Cervical spinal cord; Cervical headache; Cardiac referred pain; Vagal afferent; Cardiopulmonary sympathetic afferent (Chandler, M.J. (829) 204)

Superior temporal gyrus
Principal sulcus; Prearcuate; Orbitofrontal (Hackett, T.A. (817) 45)

Superoxide
Nitric oxide; Sumatriptan; Migraine (Read, S.J. (847) 1)

Nitric oxide; Hippocampus; Hypothalamus; Thalamus; Suprachiasmatic nucleus (Oury, T.D. (850) 96)

Superoxide anion
Reperfusion injury; Transient focal cerebral ischemia; Rat (Mori, T. (816) 350)

Superoxide dismutase
Nitric oxide; Nitric oxide synthase; Amyotrophic lateral sclerosis; cGMP; Cerebral cortex; Peroxynitrite; Nitrotyrosine (Aguila, M.C. (816) 241)

Astrocytes; MPTP; MPP^+; Reactive oxygen species; Adenosine triphosphate (Wong, S.S. (836) 237)

Superoxide dismutase (SOD)
Antioxidant; Glutathione (GSH); Catalase; Neuroprotection; Free radical; PD (Iida, M. (838) 51)

Superposition of response
Transient evoked field; Human visual cortex; Extrastriate area; Neuromagnetic source localization; Retinotopy; Paired stimuli (Supek, S. (830) 43)

Supersensitivity
Dopamine; Nucleus accumbens; 6-OHDA lesion; Ventral tegmental area; ACTH-peptide (Vos, P.E. (831) 237)

[^{35}S]GTPγS; Striatum; 6-Hydroxydopamine; Receptor–G protein coupling (Geurts, M. (841) 135)

Supplementary motor area
Basal ganglia; Striatum; Subthalamic nucleus; Presupplementary motor area; Motor control (Inase, M. (833) 191)

Suprachiasmatic
PKC; Hamster; *Arvicanthis*; Circadian; Vasopressin; Signal transduction (Bult, A. (816) 190)

Adenylate cyclase; Cyclic AMP; Circadian; Protein kinase A; Rhythm (Lee, J.M. (835) 350)

Chelerthyrine chloride; Circadian; Protein kinase C; Rhythm (Schak, K.M. (840) 158)

Hypothalamo-pituitary-adrenocortical axis; Paraventricular nucleus; Septum; Hippocampus; Amygdala; Dorsomedial hypothalamus (Emmert, M.H. (845) 60)

Suprachiasmatic nucleus
5-HT; 8-OH-DPAT,; 5-HT$_{1A}$ receptor; 5-HT$_7$ receptor (Duncan Jr., W.C. (815) 126)

Circadian rhythms; Rat hypothalamic slice; Electrophysiology; Whole-cell recording (Schaap, J. (815) 154)

Aging; Arginine-vasopressin; Vasopressin; Circadian rhythm; Common vole (Van der Zee, E.A. (816) 572)

Retina; Illumination; Electrophysiology; Degu; Rat; Circadian; Entrainment (Jiao, Y.-Y. (817) 93)

Nocturnal; Diurnal; Ventrolateral preoptic area; Fos; Circadian rhythm (Novak, C.M. (818) 375)

Circadian rhythm; Melatonin; Serotonin; Neuropeptide Y; Cyclic AMP; Brain slice (Prosser, R.A. (818) 408)

Pseudorabies virus; Circadian rhythm; Hypothalamus; Neuroanatomy (Leak, R.K. (819) 23)

Fos; Jun-B; Circadian rhythm; Intergeniculate leaflet (Beaulé, C. (821) 95)

Circadian rhythm; Neuropeptide Y, NPY; γ-Aminobutyric acid, GABA; Baclofen; Rat, brain slice (Biggs, K.R. (821) 461)

Circadian rhythm; Ventromedial hypothalamus; Glucose utilization; Fasting; C57BL/6J mouse (Challet, E. (824) 18)

Intergeniculate leaflet; Fos protein; NPY; Photoperiod; Syrian hamster (Jacob, N. (828) 83)

Serotonin receptor; Intergeniculate leaflet; Lateral geniculate nucleus; Raphe nuclei; Circadian rhythm; Aging (Duncan, M.J. (829) 39)

Circadian rhythm; Extraocular light perception; Cryptochrome; Photic entrainment; Visual system (Meijer, J.H. (831) 337)

Circadian rhythm; Substance P; Glutamate release; NMDA receptor antagonist; Firing rhythm (Hamada, T. (836) 190)

Circadian rhythm; Inositol 1,4,5-trisphosphate receptor; Rat brain; Glial fibrillary acidic protein (Hamada, T. (838) 131)

Melatonin receptor; Photoresponsiveness; Individual variation; Seasonal breeding; Pars tuberalis; Paraventricular nucleus; Medial preoptic area; Bed nucleus of the stria terminalis; Dorsomedial nucleus (Heideman, P.D. (840) 56)

Circadian rhythm; γ-Aminobutyric acid; GABA; Tetrodotoxin; Muscimol; Rat; Brain slice (Bergeron, H.E. (841) 193)

Acute ethanol treatment; Intoxication sign; Glial fibrillary acidic protein; Calbindin D28k (Satriotomo, I. (847) 124)

Circadian rhythm; IGL; Non-photic; Neuropeptide Y; Serotonin (Schuhler, S. (849) 16)

Superoxide; Nitric oxide; Hippocampus; Hypothalamus; Thalamus (Oury, T.D. (850) 96)

Supramodal brain system
Event-related potential; Selective attention; Modality specific processing; Negativity difference; N1; Cross-modal and delayed response paradigm (Luo, Y.-j. (842) 30)

Supraoptic nucleus
Corticotropin-releasing factor; Oxytocin; Paraventricular nucleus; Vasopressin; Ventrolateral medulla catecholamine cell (Buller, K.M. (834) 42)

Arginine vasopressin; 2-Deoxy-D-glucose; Paraventricular nucleus; Fos; Glucoprivation (Briski, K.P. (839) 341)

Fenfluramine; Corticosterone; ACTH; Paraventricular nucleus (Mikkelsen, J.D. (851) 247)

Supraspinal / spinal synergy
Nerve injury; Allodynia; Morphine; Dynorphin; MK-801 (Bian, D. (831) 55)

δ-Opioid agonist; Rostral–ventral medulla; [D-Ala^2,Glu^4]deltorphin; [D-Pen^2,D-Pen^5]enkephalin; Antinociception (Kovelowski, C.J. (843) 12)

Survival
Inhibin; Follistatin; Gene expression; Rescue (Wu, D.D. (835) 369)

129 / SvJ mice
Behavioral organization; Locomotor activity; C57BL/6J mice (Paulus, M.P. (835) 27)

Swallow
Orofacial; Cold block; Cortex (Narita, N. (824) 140)

Swallowing
Nucleus ambiguus; Kölliker–Fuse nucleus; Parabrachial nucleus; Biotinylated dextran amine; Cholera toxin (Hayakawa, T. (816) 364)

Swallowing neuron
Deglutition–mastication interaction; Chewing orbital cortex; Chewing neuron; Medulla oblongata (Lamkadem, M. (832) 97)

Swelling
Cerebral ischemia; Amino acid release; Volume regulation; Glutamate; GABA; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

Swine
Spreading cortical depression; Headache; Migraine; Magnetoencephalography; Electroencephalography; Electrocorticography; Pig (Bowyer, S.M. (843) 79)

Sympathetic activity
Cerebral blood flow; Cerebrovascular resistance; Cerebral vasodilator tone; Shear stress (Diéguez, G. (851) 133)

Sympathetic discharge
A5; Pons; Noradrenergic neuron; Glutamate; Angiotensin II (Maiorov, D.N. (815) 227)

Sympathetic nerve
Calcitonin gene-related peptide; Heat production; Ventromedial hypothalamus; Brown adipose tissue (Kobayashi, A. (827) 176)

Sympathetic nerve activity
Rostral ventrolateral medulla; Muscimol; Bicuculline; Arterial blood pressure; Plasma catecholamine (Natarajan, M. (827) 169)

Sympathetic nervous system
Angiotensin II; Choroid plexus; Nitric oxide; Rat (Chodobski, A. (816) 518)

Intermittent hypoxia; c-*fos*; Obstructive sleep apnea (Greenberg, H.E. (816) 638)

Antisense oligonucleotide; Angiotensinogen; Paraventricular hypothalamic nucleus; Blood pressure; Vasopressin (Kagiyama, S. (829) 120)

Metabotropic glutamate receptor; Microinjection; Nucleus of the solitary tract; Renal sympathetic nerve activity (Matsumura, K. (842) 461)

Autonomic control; Visceral neuraxis; Alphaherpes virus (Huang, J. (845) 77)

Calcitonin gene-related peptide; Brown adipose tissue; Heat production; Ventromedial hypothalamus (Kobayashi, A. (849) 196)

Angiotensin II; Area postrema; Baroreceptor reflex; Genetic hypertension (Matsumura, K. (850) 166)

Sympathetic preganglionic neurons
Substance P; Hypertension (Solomon, S.G. (815) 116)

Sympathetic preganglionic neurone (SPN)
Dopamine (DA); SKF 38393; Spinal cord (Gladwell, S.J. (818) 397)

Sympathetic preganglionic neuron
Monoamine oxidase; Intermediolateral nucleus; Noradrenergic neuron; Serotonergic neuron; Parkinson's disease (Yamada, H. (833) 302)

Synapse
Heat shock protein; Postsynaptic density; Molecular chaperone; Synaptic plasticity; Immunohistochemistry (Suzuki, T. (816) 99)

Median preoptic nucleus; Ventrolateral medulla; Catecholamine; Neuropeptide Y; Retrograde tracing (Kawano, H. (825) 204)

Paraventricular nuclei; Hypothalamus; Neurotensin; Vasopressin; Double immunostaining; Electron microscopy (Wang, Q.-P. (834) 25)

NAP-22; Spinal cord; Synapsin; Synaptobrevin (Iino, S. (834) 66)

Metalloprotease; Neuronal; Immunohistochemistry (Huber, A.B. (837) 193)

Facilitation; Crayfish; Neuromuscular junction (Crider, M.E. (842) 324)

Pineal gland; Immunocytochemistry; Peptide; Innervation; Tree shrew (*Tupaia glis*) (Kado, M. (842) 359)

Synapsin
NAP-22; Synapse; Spinal cord; Synaptobrevin (Iino, S. (834) 66)

Synapsin-I
Transient forebrain ischemia; Hippocampus; Mongolian gerbil (Martí, E. (824) 153)

Synaptic convergence
Auditory midbrain; Biocytin; Brain slice; Intracellular recording (Reetz, G. (816) 527)

Synaptic-like microvesicle
Pinealocyte; Amino acid; Double-labeling; Vimentin; Paracrine communication (Pabst, H. (838) 60)

Synaptic plasticity
Brain-derived neurotrophic factor; Exocytosis; Synaptic vesicle; FM1-43; Neurotransmitter (Bradley, J. (815) 140)

Heat shock protein; Postsynaptic density; Molecular chaperone; Synapse; Immunohistochemistry (Suzuki, T. (816) 99)

Glucose; Hippocampus; Long-term potentiation; Paired-pulse; Facilitation (Kamal, A. (824) 238)

Cocaine; I.V. self-administration; Tissue plasminogen activator; Prefrontal cortex; Transgenic mice (Ripley, T.L. (826) 117)

Transmitter release; BDNF; NGF (Numakawa, T. (842) 431)

Long-term potentiation; Neurotoxicity; Polychlorinated biphenyl; Hippocampus (Gilbert, M.E. (850) 87)

Mineralocorticoid and glucocorticoid receptor; Mineralocorticoid; Glucocorticoid; Aldosterone; Corticosterone; Long-term potentiation; Hippocampus; CA3; Dentate gyrus; In vivo (Pavlides, C. (851) 204)

Adenosine; A_1 receptor; Long-term potentiation; Long-term depression; Depotentiation; Paired-pulse facilitation; 1,3-Dipropyl-8-cyclopentylxanthine; Aging; Hippocampus (Costenla, A.R. (851) 228)

Synaptic transmission
Extracellular ATP; Ecto-ATPase; Cerebellum; Granule cell layer; Signal transduction (Zinchuk, V.S. (815) 111)

Nootropic; Nefiracetam; Nicotinic acetylcholine receptor; Long-term potentiation; Hippocampus (Nishizaki, T. (826) 281)

Capsaicin; Spinal cord; Substantia gelatinosa; C-afferent; Whole-cell voltage-clamp recording (Yang, K. (830) 268)

4-Aminopyridine; Global ischemia; Potassium channel; Electrophysiology (Zhang, L. (832) 31)

Synaptic vesicle
Brain-derived neurotrophic factor; Exocytosis; FM1-43; Neurotransmitter; Synaptic plasticity (Bradley, J. (815) 140)

Synaptobrevin
NAP-22; Synapse; Spinal cord; Synapsin (Iino, S. (834) 66)

Synaptogenesis
Neurotrophin; Cerebellar culture; Purkinje cell; Activity-dependent plasticity (Seil, F.J. (818) 561)

Hepatic leukemia factor; In situ hybridization; PAR protein (Hitzler, J.K. (820) 1)

Apoptosis; Tissue plasticity; Rat; Staurosporine; Middle cerebral artery occlusion (Chopp, M. (828) 197)

Synaptophysin
Isolation rearing; Rat; Locomotor activity; Prepulse inhibition; Startle; Dentate gyrus; Hippocampus; Schizophrenia (Varty, G.B. (824) 197)

Synaptophysin immunoreactivity
Auditory; Cochlea; Noise trauma (Canlon, B. (850) 253)

Synaptosome
ω-Agatoxin IVA (ω-Aga-IVA); P/Q-type Ca^{2+} channel; α-Eudesmol; Cerebellar Purkinje cell; NG108-15 cell (Asakura, K. (823) 169)

Glutamate uptake; Spider venom; *Phoneutria nigriventer*; Toxin (Mafra, R.A. (831) 297)

Human brain; Glutamate; Free cytosolic Ca^{2+} (Vinje, M.L. (843) 199)

Synaptotagmin III
Apical dendrite; Brain slice; Hallucinogen; Sr^{2+}; Whole-cell recording (Aghajanian, G.K. (825) 161)

Synchronization
Chattering; Pyramidal neuron; Motor; Local circuit; Intracellular recording (Kitagawa, H. (842) 101)

Syndrome X
Early overnutrition; Hypothalamus; Galanin; Insulin (Plagemann, A. (836) 146)

Synergism
Cardiac arrest; Cerebral ischemia; Diltiazem; Hippocampal CA1; MK-801; Neuronal damage; Neuroprotection (Li, M.M. (826) 44)

Syntaxin
SNAP-25; SNAP-23; Neurons; t-SNAREs; Membrane trafficking (Chen, D. (831) 11)

Synthesis
$Galanin_{rat}$; Galantide; Monoamine; Dopamine; Behavior; Rat (Ericson, E. (822) 200)

Synuclein
Lewy body; NACP; Tau; Filament aggregation; Neuronal degeneration (Arima, K. (843) 53)

Syrian hamster
Intergeniculate leaflet; Suprachiasmatic nucleus; Fos protein; NPY; Photoperiod (Jacob, N. (828) 83)

Systemic brain cooling
Carotid rete; Hypothalamus; Pons; Selective brain cooling; Ultradian wake–sleep cycle (Azzaroni, A. (844) 206)

SY5Y human neuroblastoma cell
Tau; Phosphorylation; Microtubule binding; Differentiation (Haque, N. (838) 69)

T

Tachycardia
Bradycardia; Depressor response; Pressor response (Bhatnagar, T. (822) 192)

Tachykinin
Receptor mismatch; Nociception; Spinal cord (McLeod, A.L. (836) 1)

Tachykinin NK_1 receptor antagonist
GR205171; Substance P; Vomiting; Retching; Salivation; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

Nociceptin; Hyperalgesia; Spinal cord; Intrathecal injection (Sakurada, C. (841) 85)

Tachykinin NK-1 receptor expression
Resiniferatoxin; Vanilloid receptor; Desensitization to vanilloid; Substance P expression (Szallasi, A. (815) 177)

Tachykinin-related peptide
Neuropeptide; FMRFamide; Allatotropin; Insect nervous system; Sensory neuron (Persson, M.G.S. (816) 131)

Tactile sensation
Touch; Thalamic neuron; Somatosensory system; Volatile anesthetic; Input–output modulation (Detsch, O. (829) 77)

Tail current
Allethrin; Temperature effect; Dorsal root ganglion neuron; Tetrodotoxin-sensitive sodium channel; Tetrodotoxin-resistant sodium channel (Ginsburg, K. (847) 38)

Tail-flick
WIN55,212-2; CB1 receptor; Rat; Pain; Cannabinoid; Analgesia (Martin, W.J. (822) 237)

Tail-flick test
Opioid; Pain facilitation; Antinociception; Pronociception; Anti-analgesia; Stress; Periaqueductal gray (Hawranko, A.A. (824) 251)

Tandem mass spectrometry
Globus pallidus; Hypothalamus; Neurotensin; Ventral pallidum; Micro-electrospray; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Taste
Nucleus tractus solitarius; Double-labeling; Fluorescent microsphere; Projection neuron (Gill, C.F. (821) 251)

Tat peptides
Neurotoxicity; Lentivirus; Maedi Visna virus; Human immunodeficiency virus; Rat (Starling, I. (830) 285)

Tau
gp130; Interleukin-6 receptor complex; Soluble receptor; Biological marker; ELISA; Discriminant analysis; Jackknife procedure (Hampel, H. (823) 104)

Alzheimer's disease; PHF; Glycation (Ko, L.-w. (830) 301)

Phosphorylation; SY5Y human neuroblastoma cell; Microtubule binding; Differentiation (Haque, N. (838) 69)

Lewy body; NACP; Synuclein; Filament aggregation; Neuronal degeneration (Arima, K. (843) 53)

Protein kinase C; Protein kinase M phosphorylation; Calpain; MAP kinase; Paired helical filaments; Alzheimer's disease; Signal transduction (Ekinci, F.J. (850) 207)

Tau phosphorylation
Okadaic acid; Neurofibrillary tangle; Dystrophic neurite (Kim, D. (839) 253)

Tau protein
cAMP; cGMP; Cerebrospinal fluid; Alzheimer's disease (Martínez, M. (846) 265)

Taurine
Telencephalon; Microdialysis; Fish; Hypoxia; *Carassius carassius* L.; GABA; Glutamate; Aspartate; Metabolic depression; Ischemia (Hylland, P. (823) 49)

Cerebral ischemia; Amino acid release; Swelling; Volume regulation; Glutamate; GABA; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

Volume regulation; Glutamate; Phospholipase A_2; Protein kinase C (Estevez, A.Y. (844) 1)

Taurine uptake
Retina; Rod outer segment; Protein kinase C; Chelerythrine (Militante, J.D. (818) 368)

TBPS
Muscimol; Flunitrazepam; PDBu; GABA; Autoradiogram (Oh, S. (850) 158)

Telemetry
Ketamine; Anesthesia; Luteinizing hormone; Gonadotrophin-releasing hormone; Pulse generator; Electrophysiology; Thermoregulation (Goubillon, M.-L. (841) 197)

Telencephalic subregion
Retrograde tracing; Anterograde tracing; Neurobiotin; Pallium; Sensory processing (Von der Emde, G. (818) 355)

Telencephalon
Microdialysis; Fish; Hypoxia; *Carassius carassius* L.; GABA; Glutamate; Aspartate; Taurine; Metabolic depression; Ischemia (Hylland, P. (823) 49)

Teleost
Lectin; Microglia; Optic nerve; Retina (Jimeno, D. (816) 175)

Trigeminal fiber; Gustatory; Facial lobe; Medulla (Kiyohara, S. (841) 93)

Temperature
Interleukin-1; AMPA; Excitotoxicity; Fever; Neurodegeneration; Striatum (Grundy, R.I. (830) 32)

Paraventricular thalamus; Circadian rhythm; Chronic stress; Energy balance; Feeding (Bhatnagar, S. (851) 66)

Temperature coefficient
Isolated muscle spindle; Primary ending; Secondary ending; Ramp-and-hold stretch; Adaptation (Fischer, M. (840) 1)

Temperature effect
Allethrin; Tail current; Dorsal root ganglion neuron; Tetrodotoxin-sensitive sodium channel; Tetrodotoxin-resistant sodium channel (Ginsburg, K. (847) 38)

Temporal lobe epilepsy
Human brain synaptosomes; B-50; Protein phosphorylation; Calcium; Neurotransmitter release (Hoogland, G. (837) 55)

Temporal lobe seizure
Hippocampal CA1; Gamma wave; Medial septum; Psychomotor behavior; Locomotion (Ma, J. (833) 51)

Temporal profile
Apoptosis; DNA fragmentation; DNA repair; Cortical impact; Rat; Hippocampus (Kaya, S.S. (818) 23)

Temporomandibular joint
Mustard oil; Trigeminal subnucleus caudalis; Ibotenic acid; Nociceptive reflex; Jaw muscle (Tsai, C.-M. (826) 293)

Tendon jerk
Muscle spindle afferent; Golgi tendon organ afferent; Sinusoidal response; Information transfer latency (Schäfer, S.S. (843) 36)

Tentacles
Slug; Mollusc; Tentacular digits; Olfaction; Local field potential (Ito, I. (815) 121)

Tentacular digits
Slug; Mollusc; Tentacles; Olfaction; Local field potential (Ito, I. (815) 121)

Terfenadine
Glutamate release; Excitotoxicity (Díaz-Trelles, R. (842) 478)

Terminal autoreceptors
Extracellular serotonin; Estrous cycle differences; Gender differences; Reuptake (Maswood, S. (831) 146)

Terminal deoxynucleotidyl-transferase-mediated dUTP nick end-labeling (TUNEL)
Apoptosis; Bax; Ischemia; Retina (Kaneda, K. (815) 11)

Terminal deoxynucleotidyl transferase-mediated dUTP-biotin in situ nick end labeling (TUNEL)
8-Hydroxy-2′-deoxyguanosine; Cerebral ischemia; Oxidative stress; Rat (Hayashi, T. (832) 159)

Testosterone
Androgen receptor; Brain; Hypogonadal; Mouse; Regulation; Castration (Apostolinas, S. (817) 19)

Sex difference; Brain weight; Estradiol (Galea, L.A.M. (821) 383)

Steroid-induced neural plasticity; Substance P-like immuno-histochemisrty; Hypothalamus; Weakly electric fish; *Apteronotus leptorhynchus* (Dulka, J.G. (826) 1)

Estradiol; Dihydrotestosterone; Flutamide; Aromatase inhibitor; Kindling model (Edwards, H.E. (838) 151)

Tetanic stimulation
Brain slice; Plasticity; Field potential; Dark-rearing (Atapour, N. (851) 148)

Tetanus toxin
Partial epilepsy; Inhibition; Rat (Hagemann, G. (818) 127)

Tetracaine
Cobalt chloride; Local anesthetic; Nucleus raphe magnus; Nucleus gigantocellularis pars α; Dorsolateral pontine tegmentum (Nuseir, K. (822) 1)

Tetracycline
Acetylcholine; Nicotine; Nicotinic acetylcholine receptor; SH-EP1 cell (Peng, J.-H. (825) 172)

Tetraethylammonium
Apamin; Caesium; Spinal cord; Electrophysiology (Cazalets, J.-R. (827) 185)

Tetrodotoxin
Pb^{2+}; Hippocampus; Miniature postsynaptic currents; Patch clamp; Transmitter release (Braga, M.F.M. (826) 10)

Escape behavior; Cadmium chloride; Optic tectum; Optic nerve; Myelinated and unmyelinated axons; OFF fiber (King Jr., J.G. (841) 20)

Circadian rhythm; Suprachiasmatic nucleus; γ-Aminobutyric acid; GABA; Muscimol; Rat; Brain slice (Bergeron, H.E. (841) 193)

Tetrodotoxin-resistant sodium channel
Allethrin; Temperature effect; Tail current; Dorsal root ganglion neuron; Tetrodotoxin-sensitive sodium channel (Ginsburg, K. (847) 38)

Tetrodotoxin-sensitive sodium channel
Allethrin; Temperature effect; Tail current; Dorsal root ganglion neuron; Tetrodotoxin-resistant sodium channel (Ginsburg, K. (847) 38)

tfm
Sexual dimorphism; Hippocampus; Dentate gyrus; Androgen; Androgen insensitivity (Tabibnia, G. (827) 41)

TGF-β1
Focal cerebral ischemia; Cytokine; GFAP; c-*fos*; hsp70; MK-801; NBQX; Cingulate cortex (Yamashita, K. (836) 139)

TGF-β
Fatigue; Exercise; Hydra; Spontaneous motor activity (Inoue, K. (846) 145)

Thalamic neuron
Touch; Tactile sensation; Somatosensory system; Volatile anesthetic; Input–output modulation (Detsch, O. (829) 77)

Thalamocortical system
Spontaneous activity; NMDA receptor; Organotypic coculture; Low magnesium (Hentschke, H. (830) 123)

Thalamus
REM sleep; Visual system; Activity-dependent development; RO4-1284; Cat (Marks, G.A. (815) 21)

Oxidative stress; Antibodies; Nitric oxide; Cortex; Striatum (Maybodi, L. (817) 199)

Transcription; Coactivator; Cholecystokinin; Hypothalamus; Hippocampus; Amygdala (Strömberg, H. (818) 510)

Nerve injury; Infraorbital nerve; Sensory trigeminal nuclear complex; Apoptosis; Newborn rat (Sugimoto, T. (824) 284)

Hearing; Cerebral cortex (Cetas, J.S. (830) 203)

Vagus nerve; Nucleus ventralis posteromedialis; Antinociception; Pain (Nishikawa, Y. (833) 108)

Cerebrum; Fluorescent; Motor cortex; Movement; Rat; Tracer (Gu, X. (835) 175)

Cerebral cortex; Striatum; Connection; Medial agranular (Reep, R.L. (841) 43)

Mast cell; Mating; Gonadotropin-releasing hormone; Velum interpositum (Yang, M.-F. (846) 30)

Superoxide; Nitric oxide; Hippocampus; Hypothalamus; Suprachiasmatic nucleus (Oury, T.D. (850) 96)

Thapsigargin
Calcium; Morphine withdrawal; Frontal cortex; Diabetes; Noradrenaline (NA) turnover (Ohsawa, M. (815) 424)

Diabetes; Calcium; Allodynia; Hyperalgesia; Ryanodine; Spinal cord (Ohsawa, M. (833) 278)

Endoplasmic reticulum; Orthophosphate; SERCA; Calcium homeostasis; Intracellular (Parsons, J.T. (834) 32)

Thermoregulation
Ketamine; Anesthesia; Luteinizing hormone; Gonadotrophin-releasing hormone; Pulse generator; Electrophysiology; Telemetry (Goubillon, M.-L. (841) 197)

Diagonal band of Broca; Basal forebrain; Sleep; Non-REM; Thermosensitivity; GABA (Hays, T.C. (845) 215)

Thermosensation
Cyclic nucleotide-gated channel; cGMP; cAMP; Chemosensation; *Caenorhabditis elegans* (Komatsu, H. (821) 160)

Thermosensitivity
Diagonal band of Broca; Basal forebrain; Sleep; Non-REM; Thermoregulation; GABA (Hays, T.C. (845) 215)

Theta
Dentate gyrus; Hippocampus; Hyperactivity; Paired-pulse inhibition; GABA; Exocytosis (Steffensen, S.C. (847) 186)

Thiol
N-Acetylcysteine; Aging; Cytochrome *c* oxidase; Mitochondria; Complex IV (Martínez Banaclocha, M. (842) 249)

Thioperamide
Histamine; Noradrenaline; Triprolidine; Rauwolscine; Food intake; Rat (Kurose, Y. (828) 115)

Thirst
Subfornical organ; Electrophysiology; Drinking; RAMPs; Receptors (Riediger, T. (837) 161)

5α pregnan-3α-ol-20-one (3α,5α-THP)
Stress; Benzodiazepine; Progesterone; Estrogen (Wilson, M.A. (824) 136)

Three-dimensional image analysis
Triple fluorescent labeling; Cerebral microvascular plasma perfusion; GFAP; MAP2; Embolic stroke; Laser-scanning confocal microscopy (Zhang, Z.G. (844) 55)

Threshold
Estradiol; Progesterone; Corticosterone; Kindling (Edwards, H.E. (838) 136)

Thyroid hormone
Behavior; Learning; Congenital hypothyroidism (MacNabb, C. (847) 231)

Thyroid hormones
Hypothyroidism; Malondialdehyde; Free radicals; Peroxidation; Protein modification (Chehade, J. (829) 201)

Thyrotropin-releasing hormone
Chicken; Brain; Pituitary; Nucleus; Ontogeny (Geris, K.L. (818) 260)

Fasting; Leptin; Nitric oxide synthase; Corticotropin-releasing hormone; In situ hybridization histochemistry (Isse, T. (846) 229)

Tiagabine
Substantia nigra pars reticulata; GABA; IPSC; CGP55845A (Chan, P.K.Y. (838) 18)

GABA; Uptake site; GAT-1; Frontal cortex; Human (Sundman Eriksson, I. (851) 183)

Tie 1
Embolic MCA occlusion; Cerebral microvessel; Rat; In situ hybridization (Zhang, Z.G. (847) 338)

Time
Cat; Trigeminal; Pain; Headache (Hoskin, K.L. (824) 133)

Time series analysis
Alpha rhythm; Forced oscillation; Human electroencephalogram; Spectral analysis (Gebber, G.L. (818) 556)

Timm stain
Electroconvulsive shock seizure; ECS; MES; Electroconvulsive therapy; ECT; Mossy fiber sprouting; Hippocampus (Gombos, Z. (844) 28)

Tissue culture
GABAergic neuron; Calcium-binding protein; Parvalbumin; Calbindin; Drug of abuse; Cocaine cytotoxicity; Immunocytochemistry; Ontogenesis (Glezer, I.I. (815) 389)

Neurotransmitter; Apoptosis; Growth factor; Striatum (Iacovitti, L. (816) 276)

Tissue injury
NMDA receptor; Non-NMDA receptor; Subcutaneous bee venom injection; Wide-dynamic-range neuron; Dorsal horn; Persistent nociception (Chen, J. (844) 98)

Tissue plasminogen activator
Neuroendocrine cell; Secretion; Proteolytic processing; Protein release; Protease; Storage granule; AtT20 cell (Santell, L. (816) 258)

Cocaine; I.V. self-administration; Synaptic plasticity; Prefrontal cortex; Transgenic mice (Ripley, T.L. (826) 117)

Tissue plasticity
Apoptosis; Synaptogenesis; Rat; Staurosporine; Middle cerebral artery occlusion (Chopp, M. (828) 197)

Tissue segmentation
Primate; Brain aging (Andersen, A.H. (829) 90)

Tissue slice
Oxygen consumption; Visualization; [^{15}O]Oxygen; Mitochondria; Brain (Sasaki, T. (831) 263)

Medial superior olive; Superior paraolivary nucleus; Intracellular labeling; Prelabeling; Gerbil (Kuwabara, N. (846) 59)

T-maze
Ventral subiculum; Ibotenic acid; Rewarded alternation task (Laxmi, T.R. (816) 245)

rTMS
Brain monoamine; β-adrenergic receptor; 5-HT$_2$ receptor; Rat (Ben-Shachar, D. (816) 78)

Receptor autoradiography; NMDA receptors; Serotonin uptake sites; 5-HT$_{1A}$ receptors; Hippocampus; Cortex; Amygdala; Depression (Kole, M.H.P. (826) 309)

TNF
Ceramide; SPP; Mesencephalic neuron; Neuroprotection; Parkinson's disease (Shinpo, K. (819) 170)

Microglia; Cytokine; Phosphodiesterase inhibitor; Multiple sclerosis; Astrocyte (Suzumura, A. (837) 203)

Pain; Norepinephrine; α_2-Adrenergic receptor; Microinfusion; Hippocampus (Ignatowski, T.A. (841) 70)

TNF-α
Ischemia/reperfusion; Trail; CD95-L; c-*jun*; Necrosis; FADD (Herr, I. (826) 210)

Immunoelectron Microscopy; Hippocampus; Pyramidal Neuron; Glia (Tseng, M.T. (833) 121)

Transgenic mice; Learning; Inflammation; Cytokine; Behavior; Demyelination; CNS inflammation (Aloe, L. (840) 125)

IL-1β; Ischemia; Reperfusion; Nerve; Cytokines (Mitsui, Y. (844) 192)

TNFα
Mycoplasma fermentans; Brain; Cytokine; Interleukin-1; Sickness behavior; Corticosterone; IL-1ra; Pentoxifylline; Rolipram; AIDS (Yirmiya, R. (829) 28)

α-Tocopherol
Ascorbate; Brain; Liver; Heart, plasma (Martin, A. (845) 50)

Reactive oxygen species; 21-Aminosteroid; Stobadine; Trolox; Deferoxamine; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Tocopherol transfer protein
Ataxia with vitamin E deficiency; Familial isolated vitamin E deficiency; Vitamin E; Alzheimer's disease; Down's syndrome; Cholestatic liver disease; Abetalipoproteinemia (Copp, R.P. (822) 80)

Tolerance
Isoflurane; Inhaled anesthetic; Benzodiazepine; Mechanism of action; Reduced sensitivity (Flaishon, R. (815) 287)

Benzodiazepine; Anxiety; Social interaction; NMDA receptor antagonist (Fernandes, C. (815) 431)

Cholecystokinin; Opioid; Spinal cord; Microdialysis (Lucas, G.A. (821) 79)

Tyrosine hydroxylase; Aromatic L-amino acid decarboxylase; Dopamine metabolism; Dopamine receptor agonist; Dopamine receptor antagonist; Striatum; Midbrain (Cho, S. (830) 237)

Ischemia; Adenosine; Anoxia; Hippocampus (Pérez-Pinzón, M.A. (833) 20)

Tonic–clonic seizure
Epilepsy; Absence seizure; Branched-chain amino acid; Branched-chain ketoacid (Dufour, F. (815) 400)

Tooth movement (orthodontic)
Fos; Trigeminal subnucleus caudalis; Periodontal ligament; Morphine; Naloxone (Aihara, Y. (819) 48)

Tooth pulp
Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Parvalbumin; Peptide 19; S100; Trigeminal ganglion (Ichikawa, H. (846) 274)

Topiramate
Status epilepticus; Seizure; Hippocampus; Neuroprotection; Rat (Niebauer, M. (837) 263)

Topographical
Corticospinal; Axon labelling; Fluororuby (Jeffery, N.D. (833) 315)

Topographical mapping
A fiber; C fiber; Nociception; Somatosensory function; Electrical stimulation (Shaw, F.-Z. (824) 183)

Topography
Macaque; Somatosensory cortex; Functional magnetic resonance imaging; Anesthesia (Disbrow, E. (829) 167)

***Torpedo* electrocyte**
Transmitter release; MEPP; Quanta (Kriebel, M.E. (845) 185)

Torpor
Ascorbic acid; Ischemia; Oxidative stress; Arctic ground squirrel; 13-lined ground squirrel (Drew, K.L. (851) 1)

Touch
Tactile sensation; Thalamic neuron; Somatosensory system; Volatile anesthetic; Input–output modulation (Detsch, O. (829) 77)

Toxicity
Calcium channel; Excitotoxity; Metabotropic glutamate receptor; Neostriatum; *N*-Methyl-D-aspartate (Colwell, C.S. (833) 234)

Toxin
Glutamate uptake; Synaptosome; Spider venom; *Phoneutria nigriventer* (Mafra, R.A. (831) 297)

Tracer
Cerebrum; Fluorescent; Motor cortex; Movement; Rat; Thalamus (Gu, X. (835) 175)

Tracer diffusion
Cerebral blood flow; Iodoantipyrine; Autoradiography (Greenberg, J.H. (842) 184)

Tracing
Brain lesion; Nerve injury; Neuropeptide Y (NPY); NPY Y1-receptor (Pesini, P. (828) 41)

Tract tracing
Patch clamp; Sodium channels; Potassium channels; Neuronal cell culture (Johnson, R.F. (817) 226)

Octavolateral center; Mesencephalon; Nerve projection; Horseradish peroxidase; Carbocyanine; Brain; Agnathan (González, M.J. (826) 83)

Tract-tracing
Pseudorabies virus; Transsynaptic transport; Retrograde labeling; Inferior olive; Cholera toxin subunit B (Chen, S. (838) 171)

Trail
Ischemia/reperfusion; CD95-L; TNF-α; c-*jun*; Necrosis; FADD (Herr, I. (826) 210)

Trained monkey
Area 5; Deafferentation; Command cell; Reorganization of spontaneous activity; Reaction time; Neural latency response normalization (Bioulac, B. (835) 266)

Trangenic
Mouse; Strain; Electrophysiology; Dentate gyrus (Bampton, E.T.W. (841) 123)

Transcranial electrical stimulation
Limoge's current; Potentiation; Righting reflex; Droperidol (Robert, C. (822) 132)

Transcranial magnetic stimulation
Benzodiazepine; GABA; Cortical excitability; MEP; Drug abuse; Idiopathic stupor (Palmieri, M.G. (815) 192)

Transcription
Coactivator; Cholecystokinin; Hypothalamus; Thalamus; Hippocampus; Amygdala (Strömberg, H. (818) 510)

Transcriptional regulation
Voltage-dependent Ca^{2+} channel; α_{1A} subunit; Transgenic mice; Brain; Adrenal gland (Takahashi, E. (850) 47)

Transdifferentiation
β-galactoside; Lectin; Ototoxicity; Cochlea; Rat (Bartolomé, M.V. (822) 43)

Transferrin
Multiple sclerosis; Ferritin; Iron; Cerebrospinal fluid (LeVine, S.M. (821) 511)

Transferrin receptor
Manganese; Iron; Cerebrospinal fluid; Glutamine synthetase; Choroid plexus (Zheng, W. (833) 125)

Transforming growth factors
Organotypic culture; Neomycin intoxication; Protective action; Retinoic acid; Insulin; Epidermal growth factor (Romand, R. (825) 46)

Transganglionic axonal tracer
Neuropathic pain; Chronic constriction injury; Allodynia; Plasticity (Nakamura, S.-i. (818) 285)

Transgene
R-PTP; R-PTP-k; PTP; RPTPk (Shen, P. (826) 157)

Transgenic
Angiotensinogen; Angiotensin II; In situ hybridization; Brain; Amygdala (Yang, G. (817) 123)

Neurologic disorder; Interferon; Astrocyte (Campbell, I.L. (835) 46)

Huntington's Disease; Trinucleotide repeat; Fibroblast (Manley, K. (835) 74)

Alzheimer's disease; β-Amyloid; Amyloid precursor protein; Paired-pulse facilitation; Long-term potentiation; CA1 (Larson, J. (840) 23)

Transgenic mice
Cocaine; I.V. self-administration; Tissue plasminogen activator; Synaptic plasticity; Prefrontal cortex (Ripley, T.L. (826) 117)

TNF-α; Learning; Inflammation; Cytokine; Behavior; Demyelination; CNS inflammation (Aloe, L. (840) 125)

Voltage-dependent Ca^{2+} channel; α_{1A} subunit; Transcriptional regulation; Brain; Adrenal gland (Takahashi, E. (850) 47)

Transgenic mouse
Axonal transport; SOD1; Kinesin; Dynein; ALS (Warita, H. (819) 120)

Antinociception; Morphine; Opioid receptor (Fuchs, P.N. (821) 480)

Bcl-2; Neuron; Learning; Maze; Behavior (Coleman, G.J. (832) 188)

Compulsive behavior; Obsessive compulsive disorder; Corticostriatal; Glutamate; Stereotypy (Campbell, K.M. (833) 216)

Sodium channel; Auditory; Cartwheel cell; Brain slice (Chen, K. (847) 85)

Metachromatic leukodystrophy; Arylsulfatase A; Brainstem auditory-evoked potential; Spiral ganglion (D'Hooge, R. (847) 352)

Transgenic rat
Ornithine decarboxylase; Magnetic resonance imaging; Focal cerebral ischemia (Lukkarinen, J.A. (826) 325)

Transglutaminase
Neurofibrillary tangle; Paired helical filament; Cross-linking; Polymerization (Norlund, M.A. (851) 154)

Transient evoked field
Human visual cortex; Extrastriate area; Neuromagnetic source localization; Retinotopy; Superposition of response; Paired stimuli (Supek, S. (830) 43)

Transient focal cerebral ischemia
Reperfusion injury; Superoxide anion; Rat (Mori, T. (816) 350)

Transient forebrain cerebral ischemia
Calpain; Calpain inhibitor; Liposome; Hippocampus (Yokota, M. (819) 8)

Transient forebrain ischemia
Synapsin-I; Hippocampus; Mongolian gerbil (Martí, E. (824) 153)

Neurogenesis; 5-Bromodeoxyuridine; Dentate gyrus (Takagi, Y. (831) 283)

Transient ischemic depolarization
Spreading depression; Anoxic depolarization; Middle cerebral artery occlusion; Rat (Nallet, H. (842) 148)

Transmitter release
Pb^{2+}; Hippocampus; Miniature postsynaptic currents; Patch clamp; Tetrodotoxin (Braga, M.F.M. (826) 10)

Hippocampus; Pb^{2+}; Electrophysiology; GABA; Glutamate (Braga, M.F.M. (826) 22)

Synaptic plasticity; BDNF; NGF (Numakawa, T. (842) 431)

Kappa-opioid receptor; Opiate; Voltage-dependent calcium channel; NMB neuroblastoma cell line (Keren, O. (843) 193)

Torpedo electrocyte; MEPP; Quanta (Kriebel, M.E. (845) 185)

Transplant
Adult derived astrocyte; Adenoviral vector; Parkinson's disease (Ljungberg, M.C. (816) 29)

Transplantation
Dopamine; Tyrosine hydroxylase; Trophic factor; Sertoli cell (Willing, A.E. (822) 246)

Parkinson's disease; Sertoli cell; Striatum; Substantia nigra (Liu, H.-W. (838) 227)

Dopaminergic lesion; Parkinson's disease; Sprouting; Striatum (Lopez-Martin, E. (842) 119)

Transport
Cell culture; Blood–brain barrier; Porcine; Retinoid; Sucrose (Franke, H. (818) 65)

Antidepressant; Blood–brain barrier; Bovine brain microvessel endothelial cell; Carrier; Enantiomer; P-glycoprotein; Selective serotonin reuptake inhibitor; Stereoselectivity (Rochat, B. (831) 229)

Transporter
Hippocampal slice; Glutamate; Depolarization; Immature brain (Katsumori, H. (819) 160)

Hypothalamus; Obesity; Neuropeptide Y; Arcuate nucleus; Paraventricular nucleus; Dopamine; Norepinephrine (Baskin, D.G. (848) 114)

Transport modulation
Glutamate transporter; Müller glia; Uptake regulation; GLAST; Phorbol ester; Protein kinase C (González, M.I. (831) 140)

Transsynaptic transport
Pseudorabies virus; Tract-tracing; Retrograde labeling; Inferior olive; Cholera toxin subunit B (Chen, S. (838) 171)

Trauma response
Endogenous morphine; Invertebrate nervous system; Invertebrate immune system; High performance liquid chromatography; Immunohistochemistry; *Planorbarius corneus*; *Mytilus galloprovincialis* (Sonetti, D. (835) 137)

Traumatic brain injury
Hypothermia; Cerebral ischemia; Hippocampus; Spatial memory; Excitotoxicity; Rat (Jenkins, L.W. (817) 132)

Inducible transcription factor; Rat; Conditioned freezing response; Amygdala; Hippocampus (Abrous, D.N. (826) 181)

Neurotrophic factor; Receptor; mRNA expression (Oyesiku, N.M. (833) 161)

Nestin; Astrocyte; Microglia; Plasticity (Sahin Kaya, S. (840) 153)

Tree shrew (*Tupaia glis*)
Pineal gland; Synapse; Immunocytochemistry; Peptide; Innervation (Kado, M. (842) 359)

Tremor
Acetylcholine; Dopamine, D1; c-AMP; Parkinson; Motor; Vacuous; Chewing (Mayorga, A.J. (829) 180)

TRH
Glucocorticoid; Hypothalamus; Phorbol ester; *N*-Ethyl-maleimide; AP-1; CREB (Luo, L.-G. (841) 189)

Trigeminal
Oral–motor activity; Minimal circuitry; Inhibitory circuitry (Tanaka, S. (821) 190)

Cat; Pain; Time; Headache (Hoskin, K.L. (824) 133)

Brainstem; Bilateral projection; Wallenberg's syndrome (Ellrich, J. (826) 321)

Muscle nociception; Hypertonic saline; Vi; Craniofacial (Ro, J.Y. (842) 166)

Oral; Lingual; Calcium imaging; Paresthesia; Irritation (Bryant, B.P. (842) 452)

Trigeminal depressor response
Alerting response; Pain stimulation; Skin vasomotor reflex; Skin blood flow (Nalivaiko, E. (847) 343)

Trigeminal fiber
Gustatory; Facial lobe; Medulla; Teleost (Kiyohara, S. (841) 93)

Trigeminal ganglion
Apoptosis; TUNEL; Primary sensory neuron; Capsaicin; Electron microscopy (Sugimoto, T. (818) 147)

Calcitonin gene-related peptide; Dorsal root ganglion; Immunohistochemistry; Mesencephalic trigeminal tract nucleus; Osteocalcin; Parvalbumin (Ichikawa, H. (838) 205)

Calcitonin gene-related peptide; Substance P; Streptozotocin (Troger, J. (842) 84)

Calbindin D-28k; Calcitonin gene-related peptide; Immunohistochemistry; Parvalbumin; Peptide 19; S100; Tooth pulp (Ichikawa, H. (846) 274)

GDNF; Immunohistochemistry; Trigeminal sensory nucleus; Man; SP; CGRP; trkA (Quartu, M. (847) 196)

Trigeminal sensory nucleus
GDNF; Immunohistochemistry; Trigeminal ganglion; Man; SP; CGRP; trkA (Quartu, M. (847) 196)

Trigeminal subnucleus caudalis
Fos; Tooth movement (orthodontic); Periodontal ligament; Morphine; Naloxone (Aihara, Y. (819) 48)

Temporomandibular joint; Mustard oil; Ibotenic acid; Nociceptive reflex; Jaw muscle (Tsai, C.-M. (826) 293)

Trigeminal system
Muscle spindle; Rabbit; Firing pattern; Classification; Halothane anesthesia (Kato, T. (833) 1)

Trihexyphenidyl
Biperiden; Learning and memory; Passive avoidance; Scatchard analysis; Exchange assay (Kimura, Y. (834) 6)

Trimetazidine
Kainic acid; Neurotoxicity; Cochlea; Electrophysiology (Gil-Loyzaga, P. (826) 95)

Trinucleotide repeat
Huntington's Disease; Transgenic; Fibroblast (Manley, K. (835) 74)

Triple fluorescence labelling
Extracellular matrix; Chondroitin sulphate proteoglycans; Fast-firing neurons; Parvalbumin; Rat; Monkey (Härtig, W. (842) 15)

Triple fluorescent labeling
Three-dimensional image analysis; Cerebral microvascular plasma perfusion; GFAP; MAP2; Embolic stroke; Laser-scanning confocal microscopy (Zhang, Z.G. (844) 55)

Triprolidine
Histamine; Noradrenaline; Thioperamide; Rauwolscine; Food intake; Rat (Kurose, Y. (828) 115)

TrkA
Calbindin D-28k; Calcitonin-gene related peptide; Jugular ganglion; Nodose ganglion; Parvalbumin; Petrosal ganglion; Tyrosine hydroxylase (Ichikawa, H. (846) 268)

***Trk*B**
Ototoxicity; BDNF; Vestibular epithelia; Regeneration (Popper, P. (846) 40)

Trol
Drosophila; Neuroblast; Ecdysone; Culture (Datta, S. (818) 77)

Trolox
Extracellular potassium concentrations; Slow voltage variation; Brain damage; Ischemia; Rose bengal; Membrane permeability; Chick retina (Netto, M. (827) 221)

Reactive oxygen species; 21-Aminosteroid; Stobadine; α-Tocopherol; Deferoxamine; Melatonin; Field action potential (Vlkolinský, R. (850) 118)

Trophic control
Calcitonin gene-related peptide; Acetylcholinesterase molecular forms; Neuromuscular junction; Adult skeletal muscle (Fernandez, H.L. (844) 83)

Trophic factor
Dopamine; Tyrosine hydroxylase; Sertoli cell; Transplantation (Willing, A.E. (822) 246)

Trophic factor withdrawal
PC12 cell; Ceramide; Free radical; Nuclear factor-κB (Lambeng, N. (821) 60)

Trout brain synaptosome
Adenosine; A1 receptor; Glutamate release (Poli, A. (837) 46)

[D-Trp^{32}]NPY$_{(1-36)}$
Hypertension; Energy balance; Hypothalamus; [D-Tyr^{27,36} Thr^{32}]NPY$_{(27-36)}$ (VanNess, J.M. (821) 263)

Tryptophan
Interleukin-6; Lipopolysaccharide; Interleukin-1; ACTH; Corticosterone; Serotonin (Wang, J. (815) 337)

Tuberomammillary
Hypothalamus; Sleep; REM; Histamine; Microwire (Steininger, T.L. (840) 138)

Tubulin
Colchicine; Goldfish; Retinal explant; Axonal transport; Vision (Dybowski, J.A. (842) 62)

Tumor
MADB106; IL-1; NK cell; Catecholamine (Hodgson, D.M. (816) 200)

Tumor necrosis factor-α
Monocyte/macrophage; Neuroimmunology; Cytokine; Interleukin-1β; Interleukin-10 (Woiciechowsky, C. (816) 563)

Tumour necrosis factor-α
Cytokine; Diagnostic marker; ELISA; Interleukin-6; Microglia (Garlind, A. (826) 112)

TUNEL
Apoptosis; Primary sensory neuron; Trigeminal ganglion; Capsaicin; Electron microscopy (Sugimoto, T. (818) 147)

Apoptosis; cDNA array; Cell death; Fluoro-Jade; Glutamate (Cirelli, C. (840) 184)

Neurotrophin-3; Ischemia; MCAO; Caspase-3; HSP72 (Zhang, W.R. (842) 211)

TUNEL assay
Neurodegeneration; Klenow assay; ISEL; Cell death; Hippocampus (Adamec, E. (849) 67)

TUNEL-positive neuronal death
Cyclooxygenase-2 inhibitor; Kainic acid-induced seizure; Hippocampus; Prostaglandin (Baik, E.J. (843) 118)

Tupaia belangeri
Autoradiography; Receptor; Radioligand; Mapping; Distribution (Mijnster, M.J. (841) 101)

***Tupaia belangeri* (Scandentia)**
Immunohistochemistry; FMRFamide; Ontogeny; Pituitary; Basophilic invasion (Malz, C.R. (834) 83)

Turning behavior
Ethanol consumption; Medial prefrontal cortex; Dopamine; Nucleus accumben; Brain asymmetry (Nielsen, D.M. (823) 80)

Turnover
Antidepressant; Catecholamines; Dopamine; Norepinephrine (Zangen, A. (824) 243)

5-HT transporter; 5-HT reuptake; Irreversible antagonist; Cocaine; Dopamine transporter (Vicentic, A. (841) 1)

Type 2 diabetes mellitus
Spinal cord; NMDA receptor; AMPA receptor; Glutamate receptor; Obese–diabetic mouse (Li, N. (849) 34)

Type II neuron
Basal ganglia; Dorsomedial caudate–putamen; Movement disorder; Paroxysmal dyskinesia; GABAergic system (Gernert, M. (821) 277)

Tyrosine
PC12 cells; DOPA synthesis; Phenylalanine; Tyrosine hydroxylase (DePietro, F.R. (831) 72)

Tyrosine hydroxylase
Rana pipiens; Retina; Amacrine cell; Immunocytochemistry; Dopamine; Neurotransmitter (Kicliter, E. (816) 149)

Dopamine; Trophic factor; Sertoli cell; Transplantation (Willing, A.E. (822) 246)

A1 and A2 noradrenergic neurons; Nucleus of the solitary tract; Reticular formation; Prolactin; Prolactin-releasing peptide (Chen, C.-T. (822) 276)

Parkinson's; MPTP; Paraquat (Brooks, A.I. (823) 1)

Aging; Norepinephrine transporter; Locus coeruleus; Brown–Norway rat (Shores, M.M. (826) 143)

Cerebellum; Purkinje cell; Hereditary ataxia; Immunohistochemistry (Sawada, K. (829) 107)

Aromatic L-amino acid decarboxylase; Dopamine metabolism; Dopamine receptor agonist; Dopamine receptor antagonist; Tolerance; Striatum; Midbrain (Cho, S. (830) 237)

PC12 cells; DOPA synthesis; Tyrosine; Phenylalanine (DePietro, F.R. (831) 72)

Male rat; Castration; Dopamine; Medial preoptic area; Nitric oxide synthase; NADPH-d; Paraventricular nucleus; Bed nucleus of stria terminalis; Amygdala (Du, J. (836) 90)

Aminotetralin; Autoradiography; Catecholamine; Dopamine; Histamine; Phenylaminotetralin; Sigma (Booth, R.G. (837) 95)

Dopaminergic neuron; Ventral tegmental area; Arcuate nucleus; Olfactory bulb; Noradrenergic neuron; Locus coeruleus (Hida, T. (842) 491)

Nucleus accumbens; Ventral tegmental area; Fluoro-Gold; Calbindin-D 28kD; Calretinin (Tan, Y. (844) 67)

Cerebellum; Purkinje cell; Ataxia; *Dilute–lethal* mouse (Sawada, K. (844) 188)

Substantia nigra; Ventral tegmental area; Calcium-binding protein; Dopamine (Nemoto, C. (846) 129)

Calbindin D-28k; Calcitonin-gene related peptide; Jugular ganglion; Nodose ganglion; Parvalbumin; Petrosal ganglion; TrkA (Ichikawa, H. (846) 268)

Amygdala; Dopamine; Catecholamine; Dopamine-beta-hydroxylase; Parvalbumin (Brinley-Reed, M. (850) 127)

Nurr1; Brain; Dopamine; Distribution (Bäckman, C. (851) 125)

Tyrosine kinase
Genistein; Calcium current; Whole-cell patch-clamp; Hippocampal slice (Potier, B. (816) 587)

Tyrosine kinase inhibitor
Astrocyte; Stellation; Culture (Abe, K. (837) 306)

Tyrosine phosphorylation
PKC; Quisqualic acid; Ca^{+2} (Alderson, R.F. (818) 236)

Tyrosine protein kinase
DMXB; Protein kinase C; Calcium; α7 Nicotinic receptor (Li, Y. (830) 218)

[D-Tyr^{27,36} Thr^{32}]NPY$_{(27-36)}$
Hypertension; Energy balance; Hypothalamus; [D-Trp^{32}]NPY$_{(1-36)}$ (VanNess, J.M. (821) 263)

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Ultradian wake–sleep cycle
Carotid rete; Hypothalamus; Pons; Selective brain cooling; Systemic brain cooling (Azzaroni, A. (844) 206)

Ultrastructural location
Cathepsin B; Cathepsin D; Aging; Cerebral cortex; Degenerating cell (Jung, H. (844) 43)

Ultrastructure
Feeding; Lordosis; Opiate; Estrogen; Glucose; GAD (Commons, K.G. (816) 58)

Glutamate; GABA; Immunogold; Solitarius; Infralimbic (Torrealba, F. (820) 20)

Excitatory amino acid; AMPA receptor; Amygdala; GABA; Immunogold (He, Y. (827) 51)

Electron microscopy; Hippocampus; Dentate gyrus; Interneuron (Drake, C.T. (849) 203)

Unconditioned stimulus preexposure effect
Benzodiazepine receptor; Avoidance learning; Coping; Corticosterone; Rat (Lehmann, J. (851) 141)

Unilateral vestibular deafferentation
Noradrenaline; Serotonin; Hippocampus (Zheng, Y. (836) 199)

Unilateral vestibular neurectomy
Cat brainstem; Vestibular nuclei; Fos expression; Immunohistochemistry (Gustave Dit Duflo, S. (824) 1)

Unit activity
Cortical spreading depression; Hippocampus; Hyperthermia; Paraventricular nucleus; Rat (Monda, M. (824) 119)

Unitary activity
Auditory cortex; Sleep; Wakefulness; In vivo (Peña, J.L. (816) 463)

Uptake
Nigrostriatal; Parkinson's disease; Nomifensine (Disshon, K.A. (842) 399)

Uptake regulation
Glutamate transporter; Müller glia; GLAST; Transport modulation; Phorbol ester; Protein kinase C (González, M.I. (831) 140)

Uptake site
GABA; Tiagabine; GAT-1; Frontal cortex; Human (Sundman Eriksson, I. (851) 183)

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Proto-oncogene; Interneuron; Nociception (Birder, L.A. (834) 55)

Urinary bladder inflammation
Neurotrophic factor; Dorsal root ganglia; Spinal cord; Sacral parasympathetic nucleus; Lateral collateral pathway (Vizzard, M.A. (844) 174)

Urine
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Urocortin
Corticotropin-releasing factor; Stress; Anxiety; Drug addiction (Koob, G.F. (848) 141)

Use-dependent plasticity
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Vacuous
Acetylcholine; Dopamine, D1; c-AMP; Tremor; Parkinson; Motor; Chewing (Mayorga, A.J. (829) 180)

Vagal afferent
Cervical spinal cord; Cervical headache; Cardiac referred pain; Superior sagittal sinus; Cardiopulmonary sympathetic afferent (Chandler, M.J. (829) 204)

Vagal lobe
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Masseter; Adrenalectomy; Orofacial pain; Rat (Imbe, H. (845) 165)

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Thalamus; Nucleus ventralis posteromedialis; Antinociception; Pain (Nishikawa, Y. (833) 108)

Fever; Endogenous antipyresis (Sugimoto, N. (844) 157)

Vanilloid
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Vanilloid receptor
Resiniferatoxin; Desensitization to vanilloid; Substance P expression; Tachykinin NK-1 receptor expression (Szallasi, A. (815) 177)

Vascular cell adhesion molecule-1
Blood–brain barrier; Endothelial cell; Intercellular adhesion molecule-1; E-selectin; CD36; Cerebral malaria (Dobbie, M.S. (830) 330)

Vascular endothelial growth factor
Blood–brain barrier; Brain tumor; Edema; Glioma; Horseradish peroxidase (Book, A.A. (833) 173)

Rat sciatic nerve; Peripheral nerve; Nerve regeneration; Nerve grafting; Nerve growth factor (Sondell, M. (846) 219)

Vasoactive intestinal peptide
Sphenopalatine ganglion; Otic ganglion; Neuropeptide Y; Calcitonin gene-related peptide; Human (Uddman, R. (826) 193)

Hypothalamus; Vasopressin; Circadian rhythm immunofluorescence; Confocal laser scanning microscopy (Romijn, H.J. (832) 47)

Acetylcholine; Calcium; CREB; Norepinephrine; Ontogeny (Schomerus, C. (833) 39)

Peptide T; Chemokine; gp120; Acquired immunodeficiency syndrome; Secretion (Brenneman, D.E. (838) 27)

Development; Brain; Frog; Immunocytochemistry (Mathieu, M. (851) 105)

Vasoactive intestinal peptide (VIP)
Rat; Pituitary; Cannabinoid; Prolactin; CAMP; Lactotroph; CB_1 receptor (Rodríguez de Fonseca, F. (841) 114)

Vasopressin
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Aging; Arginine-vasopressin; Circadian rhythm; Common vole; Suprachiasmatic nucleus (Van der Zee, E.A. (816) 572)

Social stress; Nitric oxide; Corticotropin-releasing hormone; ACTH/Corticosterone (Bugajski, J. (817) 220)

Glucocorticoid-receptor deficiency; Median eminence; Corticotropin-releasing hormone; Neurophysin (Kretz, O. (818) 488)

Diagonal band of Broca; Baroreflex (Abdelmalek, A. (821) 50)

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Antisense oligonucleotide; Angiotensinogen; Sympathetic nervous system; Paraventricular hypothalamic nucleus; Blood pressure (Kagiyama, S. (829) 120)

Fos-protein; Osmotic stimulus; Oxytocin; Hypothalamus (Rocha, M.J.A. (829) 197)

Golden hamster; Scent marking behavior; Olfactory communication (Ferris, C.F. (832) 1)

Hypothalamus; Vasoactive intestinal peptide; Circadian rhythm immunofluorescence; Confocal laser scanning microscopy (Romijn, H.J. (832) 47)

Paraventricular nuclei; Hypothalamus; Neurotensin; Double immunostaining; Synapse; Electron microscopy (Wang, Q.-P. (834) 25)

Corticotropin-releasing factor; Oxytocin; Paraventricular nucleus; Supraoptic nucleus; Ventrolateral medulla catecholamine cell (Buller, K.M. (834) 42)

Hypertension; L-NNA; Nitric oxide (Łoń, S. (842) 384)

Neuropeptide; Evolution; Oxytocin; Neuropeptide Y; Receptor (Hoyle, C.H.V. (848) 1)

Vasopressin neuron
SFO; Angiotensin I; c-*fos*; Drinking (Xu, Z. (817) 67)

Velum interpositum
Mast cell; Mating; Gonadotropin-releasing hormone; Thalamus (Yang, M.-F. (846) 30)

Ventral pallidum
Amygdala; Inferior colliculus; Electrical stimulation; Acoustic startle; Interstimulus interval; Prepulse inhibition (Li, L. (836) 164)

Globus pallidus; Hypothalamus; Neurotensin; Tandem mass spectrometry; Micro-electrospray; Nanoliter-flow capillary liquid chromatography (Andrén, P.E. (845) 123)

Ventral subiculum
Ibotenic acid; T-maze; Rewarded alternation task (Laxmi, T.R. (816) 245)

Ventral tegmental area
Dopamine; Nucleus accumbens; 6-OHDA lesion; ACTH-peptide; Supersensitivity (Vos, P.E. (831) 237)

Stimulation-induced locomotor response; Facilitation; Bicuculline; Phaclofen; Muscimol; Contralateral effect (Trojniar, W. (842) 419)

Tyrosine hydroxylase; Dopaminergic neuron; Arcuate nucleus; Olfactory bulb; Noradrenergic neuron; Locus coeruleus (Hida, T. (842) 491)

Nucleus accumbens; Fluoro-Gold; Calbindin-D 28kD; Calretinin; Tyrosine hydroxylase (Tan, Y. (844) 67)

Substantia nigra; Calcium-binding protein; Dopamine; Tyrosine hydroxylase (Nemoto, C. (846) 129)

Ventrobasal thalamus
Lateral geniculate nucleus; Nitric oxide; Sensory system; Guanylate cyclase; Cyclic GMP (Shaw, P.J. (833) 272)

Barrel cortex; AMPA/KAIN receptor; Co^{2+}-staining; Intracellular microelectrophysiology (Világi, I. (844) 118)

Ventrolateral medulla
Median preoptic nucleus; Paraventricular hypothalamic nucleus; Catecholamine; Anterograde and retrograde tracing; Rat (Kawano, H. (817) 110)

Median preoptic nucleus; Catecholamine; Neuropeptide Y; Synapse; Retrograde tracing (Kawano, H. (825) 204)

Ventrolateral medulla catecholamine cell
Corticotropin-releasing factor; Oxytocin; Paraventricular nucleus; Supraoptic nucleus; Vasopressin (Buller, K.M. (834) 42)

Ventrolateral periaqueductal gray
β-Endorphin analgesia; AP7; MK801; NMDA receptor; Scopolamine; Mecamylamine; Cholinergic receptor; Rostral ventromedial medulla (Spinella, M. (829) 151)

Ventrolateral preoptic area
Nocturnal; Diurnal; Fos; Circadian rhythm; Suprachiasmatic nucleus (Novak, C.M. (818) 375)

Ventromedial hypothalamus
Suprachiasmatic nucleus; Circadian rhythm; Glucose utilization; Fasting; C57BL/6J mouse (Challet, E. (824) 18)

Calcitonin gene-related peptide; Heat production; Sympathetic nerve; Brown adipose tissue (Kobayashi, A. (827) 176)

Reptile; Sex-reversed; Preoptic area (Wennstrom, K.L. (838) 104)

Calcitonin gene-related peptide; Sympathetic nervous system; Brown adipose tissue; Heat production (Kobayashi, A. (849) 196)

Ventromedial nucleus
Monoamine; γ-Aminobutyric acid; Paraventricular nucleus; Feeding behavior; Energy balance (Ohtani, N. (842) 6)

Amygdala; Orexin A; Orexin B; Energy balance (Dube, M.G. (842) 473)

Verapamil
Analgesia; Flunarizine; Hotplate test; Opioid receptor subtype (Weizman, R. (818) 187)

Verotoxin receptor
Hemolytic uremic syndrome; Sensory neuron; Fabry's disease (Ren, J. (825) 183)

Vesicular monoamine transporter type 2
6-Hydroxydopamine; 1-Methyl-4-phenylpyridinium; L-DOPA; Neurotoxicity; Hypothalamic noradrenergic neuron; Nigro-striatal dopaminergic neuron (Cleren, C. (830) 314)

Vesicular transmitter release
Glutamate; AMPA; NMDA (Gao, F. (821) 487)

Vestibular
Expiration; Reticular formation; Motoneuron; Pseudorabies virus; Respiration (Billig, I. (820) 31)

Human; Posture; Sensory interaction; Somatosensory; Galvanic stimulation (Hlavacka, F. (821) 8)

Nitric oxide; cGMP; cAMP; Hair cell; Cuttlefish (Tu, Y. (845) 35)

Vestibular compensation
*N*ω-nitro-L-arginine methyl ester; Nitric oxide synthase; Vestibulocerebellum; Fos; Immunohistochemistry (Kitahara, T. (815) 405)

Protein kinase C; Cerebellum; Labyrinthectomy; Purkinje cell; Signal transduction protein (Balaban, C.D. (845) 97)

Vestibular end organ
AMPA; Afferent; Neurotransmitter; Immunocytochemistry; Rat (Matsubara, A. (819) 58)

Vestibular epithelia
Ototoxicity; BDNF; *Trk*B; Regeneration (Popper, P. (846) 40)

Vestibular hair cell
Apoptosis; Cytochrome *c*; Mitochondria; Aminoglycoside (Nakagawa, T. (847) 357)

Vestibular nuclei
Cat brainstem; Unilateral vestibular neurectomy; Fos expression; Immunohistochemistry (Gustave Dit Duflo, S. (824) 1)

Vestibular periphery
Muscarinic receptor; Quinuclidinyl benzilate; Autoradiography; Hair cell (Drescher, D.G. (845) 199)

Chinchilla laniger; NMDA R1 receptor (Ishiyama, G. (851) 270)

Vestibulocerebellum
Vestibular compensation; *N*ω-nitro-L-arginine methyl ester; Nitric oxide synthase; Fos; Immunohistochemistry (Kitahara, T. (815) 405)

Vestibulo-ocular reflex
Nociceptin; Orphanin FQ; Medial vestibular nucleus (Sulaiman, M.R. (828) 74)

Vi
Trigeminal; Muscle nociception; Hypertonic saline; Craniofacial (Ro, J.Y. (842) 166)

Vibration
Anticipatory postural adjustment; Arm movement; Freely and backsupported posture; H-reflex; Human (Kawanishi, M. (832) 13)

Vibrotaction
Sensory system; Somatosensory cortex; Short-term plasticity; EEG; Driving response; Microstimulation (Kelly, E.F. (815) 326)

Vigilance
Brainstem; Cholinergic neuron; Micturition; Enuresis; Barrington's nucleus (Koyama, Y. (840) 45)

Vigilance state
Hippocampus; Inhibition; Modulation; Dentate granule cell; Plasticity (Bronzino, J.D. (849) 45)

Vigilance state plasticity
In vivo microdialysis; 5-HT autoreceptors; 5-Hydroxytryptamine; Hippocampal formation; Raphé–hippocampal system (Mokler, D.J. (838) 95)

Vimentin
Astrocyte; Glial fibrillary acidic protein (GFAP); HSP27; Protein phosphorylation; Calcium (Gottfried, C. (833) 142)

Pinealocyte; Amino acid; Double-labeling; Synaptic-like microvesicle; Paracrine communication (Pabst, H. (838) 60)

VIP
$PACAP_{38}$; $PACAP_{27}$; Cyclic AMP; Melatonin; Hypothalamus; Cerebral cortex; Optic lobes; Pineal gland; Chick (Nowak, J.Z. (830) 195)

Visceral neuraxis
Autonomic control; Sympathetic nervous system; Alpha-herpes virus (Huang, J. (845) 77)

Visceral nociception
Nucleus submedius; Periaqueductal gray; Spinal dorsal horn; Colorectal distension; Rat (Okada, K. (834) 112)

Visceroception
Nociception; Lateral thalamus; Viscerovisceral convergence; Viscerosomatic convergence (Horn, A.C. (851) 164)

Visceronociceptive neuron
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Viscerosomatic convergence
Visceroception; Nociception; Lateral thalamus; Viscerovisceral convergence (Horn, A.C. (851) 164)

Viscerovisceral convergence
Visceroception; Nociception; Lateral thalamus; Viscerosomatic convergence (Horn, A.C. (851) 164)

Vision
Colchicine; Goldfish; Retinal explant; Axonal transport; Tubulin (Dybowski, J.A. (842) 62)

Visual cortex
Positron emission tomography; Blindness; Plasticity; Sensory substitution (De Volder, A.G. (826) 128)

Serotonin 5-HT_{1A} receptor; 8-Hydroxy-2-(*N*,*N*-dipropylamino)tetralin (8-OH-DPAT); *N*-methyl-D-aspartate receptor; Long-term potentiation (Edagawa, Y. (827) 225)

Fura-2; Rat; Spike; Voltage-dependent calcium channel (Isomura, Y. (832) 175)

Visual evoked potential
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Visual functionality
NADPH diaphorase activity; Optic lobe; Medfly (Conforti, E. (843) 1)

Visualization
Oxygen consumption; Tissue slice; [^{15}O]Oxygen; Mitochondria; Brain (Sasaki, T. (831) 263)

Visual system
REM sleep; Activity-dependent development; Thalamus; RO4-1284; Cat (Marks, G.A. (815) 21)

Suprachiasmatic nucleus; Circadian rhythm; Extraocular light perception; Cryptochrome; Photic entrainment (Meijer, J.H. (831) 337)

Visuomotor
Lateral geniculate nucleus; Reticular formation; Orienting movement; Saccade (Billet, S. (847) 121)

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Tocopherol transfer protein; Ataxia with vitamin E deficiency; Familial isolated vitamin E deficiency; Alzheimer's disease; Down's syndrome; Cholestatic liver disease; Abetalipoproteinemia (Copp, R.P. (822) 80)

β Amyloid; Neurotoxicity; Ginkgolide; Apoptosis; Cell death (Yao, Z.-X. (847) 203)

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Growth factor; mRNA; Postnatal; Phosphorylation; Mitogen (Prieto, A.L. (816) 646)

VMAT2
Aggression; Knock-out mouse; MAO-deficient mouse; Monoamine oxidase; 5-HT_{2A} receptor (Shih, J.C. (835) 104)

VMH–PVN
Microdialysis; Blood–brain barrier; Brain metabolism; Astrocyte (Goucham, A.-Y. (816) 84)

VMN
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Volatile anesthetic
Touch; Tactile sensation; Thalamic neuron; Somatosensory system; Input–output modulation (Detsch, O. (829) 77)

Halothane; Isoflurane; Ca channel; Ca current; Xenopus oocyte (Kamatchi, G.L. (831) 85)

Voltage-clamp
Neurosteroid; Alphaxalone; Allopregnanolone; Oocyte; Recombinant $GABA_A$ receptor (Maitra, R. (819) 75)

Voltage-dependent Ca^{2+} channel
α_{1A} subunit; Transcriptional regulation; Transgenic mice; Brain; Adrenal gland (Takahashi, E. (850) 47)

Voltage-dependent calcium channel
Fura-2; Rat; Spike; Visual cortex (Isomura, Y. (832) 175)

Kappa-opioid receptor; Opiate; Transmitter release; NMB neuroblastoma cell line (Keren, O. (843) 193)

Voltage-dependent chloride channel
Outer hair cell; Cochlea; Single-cell RT-PCR (Kawasaki, E. (838) 166)

Voltage-gated calcium channel
Kainate; Apoptosis; Necrosis; Cerebellar granule cells; Calcium (Leski, M.L. (828) 27)

Voltage-sensitive dye
Olfactory cortex; HDB; MCPO; In vivo (Rosin, J.-F. (820) 105)

Voltage-sensitive dyes
Entorhinal cortex; Isolated guinea pig brain; Optical imaging; Piriform cortex (De Curtis, M. (837) 314)

Voltammetry
Glutamate; NMDA; Nitric oxide; Nociception; Spinal cord (Rivot, J.-P. (821) 101)

Ibotenic acid; Locomotor activity; Perinatal anoxia; Medial prefrontal cortex; Schizophrenia (Brake, W.G. (831) 25)

Ovariectomy; Rat; Dopamine transporter (Thompson, T.L. (834) 164)

Volume regulation
Cerebral ischemia; Amino acid release; Swelling; Glutamate; GABA; Taurine; Ion substitution; Osmotic stress (Phillis, J.W. (828) 1)

Taurine; Glutamate; Phospholipase A_2; Protein kinase C (Estevez, A.Y. (844) 1)

Volume-sensitive organic osmolyte-anion channel
Astrocyte; Excitotoxicity; Cell swelling; Energy depletion (Rutledge, E.M. (842) 39)

Voluntary muscle contraction
Human; H-reflex; Reciprocal inhibition; Presynaptic inhibition; Long-latency inhibition (Leonard, C.T. (817) 1)

Vomeronasal organ
cAMP; IP_3; Urine; G_i; G_o (Sasaki, K. (823) 161)

Vomiting
Tachykinin NK_1 receptor antagonist; GR205171; Substance P; Retching; Salivation; Nucleus ambiguus; Vagus nerve (Fukuda, H. (818) 439)

VR1
Resiniferatoxin; Capsaicin; Vanilloid; Nociception (Szabo, T. (840) 92)

cVRG
Bötzinger complex; Pre-Bötzinger complex; rVRG; Cardiopulmonary receptor; Carotid chemoreceptor; Respiratory neuron (Chitravanshi, V.C. (821) 443)

rVRG
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GABA (γ-aminobutyric acid); Whole-cell current; Patch-clamp; Nucleus accumbens; Protein kinase A (Ye, J.-H. (837) 29)

Wakefulness
Nitric oxide; Pedunculopontine tegmentum; Cholinergic cell; Sleep; Rat (Hars, B. (816) 209)

Auditory cortex; Sleep; Unitary activity; In vivo (Peña, J.L. (816) 463)

Wallenberg's syndrome
Brainstem; Trigeminal; Bilateral projection (Ellrich, J. (826) 321)

Wallerian degeneration
PBR; DBI fragment; Pregnenolone biosynthesis; Remyelination (Lacor, P. (815) 70)

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Adrenergic; Imidazoline; Sodium appetite; Dehydration (Sugawara, A.M. (839) 227)

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Steroid-induced neural plasticity; Testosterone; Substance P-like immuno-histochemisrty; Hypothalamus; *Apteronotus leptorhynchus* (Dulka, J.G. (826) 1)

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Western blot analysis
Nitric oxide synthase; Postmortem human brain; [^{3}H]L-Citrulline formation assay; Arginine; Citrulline (Blum-Degen, D. (834) 128)

Western blotting
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WFA
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White Leghorn
Mouse leptin; Food intake; Broiler; Intracerebroventricular administration (Bungo, T. (817) 196)

White matter
Cerebral palsy; Oxidative stress; Oxygen free radicals; Reperfusion (Jelinski, S.E. (815) 150)

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Neonatal rat; Periventricular leukomalacia; Cerebral hypoperfusion; Cerebral blood flow; Amyloid precursor protein (Uehara, H. (837) 213)

Whole cell
Calcium current; Current density; Entorhinal cortex; Rat; Patch-clamp (Bruehl, C. (816) 554)

Whole-cell current
Waglerin-1; GABA (γ-aminobutyric acid); Patch-clamp; Nucleus accumbens; Protein kinase A (Ye, J.-H. (837) 29)

Whole cell $GABA_A$ current
Seizure; γ-Aminobutyric acid receptor/channel; Patch clamp; Freshly isolated neuron (Ye, J.H. (821) 26)

Whole-cell patch-clamp
Tyrosine kinase; Genistein; Calcium current; Hippocampal slice (Potier, B. (816) 587)

Whole-cell recording
Suprachiasmatic nucleus; Circadian rhythms; Rat hypothalamic slice; Electrophysiology (Schaap, J. (815) 154)

Apical dendrite; Brain slice; Hallucinogen; Sr^{2+}; Synaptotagmin III (Aghajanian, G.K. (825) 161)

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Retina; Regeneration; Newt (Kaneko, Y. (117) 225)

Cholinergic neuron; Development; Neurotrophin receptor; Septo-hippocampal; Transgenic mouse (Ward, N.L. (118) 79)

Bcl-2; IGF-I; IGFBP-2; Neuronal cell death; Transgenic mouse (Baker, N.L. (118) 109)

Retinoic acid; Retinal pigment epithelium; Organ culture; Retina (Söderpalm, A.K. (118) 169)

Arcuate nucleus
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Arterial blood pressure
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Astrocyte
Monocarboxylate transporter (MCT1); Brain; Endothelium; Pericyte; Neuron (Leino, R.L. (113) 47)

Microglia; Nucleus of the solitary tract; Dorsal motor nucleus of the vagus; Paraventricular nucleus of the hypothalamus (Rinaman, L. (114) 207)

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Astrocyte migration
Stellation; Retinal development; Hypoxia; Hyperoxia (Zhang, Y. (118) 135)

Astroglia
Oligodendroglia; Immunopanning; Cell culture; Development; Myelin (Ingraham, C.A. (112) 79)

AT1 receptor
Angiotensin II; Hypertension; Rat (Porter, J.P. (112) 293)

Autonomic function
Synaptogenesis; Brainstem vagal nuclei; Nucleus tractus solitarii; Ventrolateral medulla; Nucleus ambiguus (Rao, H. (112) 281)

Autoradiography
NMDA; AMPA; Sheep; Development (Anderson, K.J. (118) 69)

Auxiliary subunits
Potassium channels; Kvβ1; Kvβ2; Mouse; Ion channels (Downen, M. (117) 71)

Axonal guidance
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Axonal outgrowth
Descending pathway; Development; Growth cone; Sprouting (Gianino, S. (112) 189)

Axon growth
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B-50 (GAP-43)
MARCKS; Protein kinase C; Muscarinic receptor (Haas, M.S. (114) 89)

Barrel
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Basal forebrain
Acetylcholine; Brain development; Rett syndrome; Sex difference; Sympathetic ingrowth (Sherren, N. (114) 49)

Basal ganglia
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6-Hydroxydopamine; 5,7-Dihydroxytryptamine; In situ hybridization; Serotonin 2C receptor; Substantia nigra; Dorsal raphe (Basura, G.J. (116) 111)

Bax
Bcl-2; Apoptosis; Naturally-occurring cell death; Developing brain; Methylazoxymethanol (MAM) acetate (López, E. (112) 149)

Apoptosis; Bcl-2; Retinal ganglion cells; Cerebral cortex; Hippocampus; Ischemia (Rickman, D.W. (115) 41)

Bcl-2
Bax; Apoptosis; Naturally-occurring cell death; Developing brain; Methylazoxymethanol (MAM) acetate (López, E. (112) 149)

Apoptosis; Bax; Retinal ganglion cells; Cerebral cortex; Hippocampus; Ischemia (Rickman, D.W. (115) 41)

IGF-I; IGFBP-2; Apoptosis; Neuronal cell death; Transgenic mouse (Baker, N.L. (118) 109)

Bcl-x
Apoptosis; Caspase-3; Ced-3; Ced-9; Neuronal development (Urase, K. (116) 69)

BDNF
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GDNF; Fetal alcohol syndrome; Neuroprotection; Ethanol (Bradley, D.M. (112) 99)

$GABA_A$ receptor; Subunit; Thalamocortical projection; Barrel; Cortical development; MK-801; Elvax polymer (Penschuck, S. (112) 117)

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Behavior
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Benzodiazepine
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$GABA_A$ receptor; Development; Miniature IPSCs; Hippocampal slices (Rovira, C. (114) 79)

Beta adrenergic receptor
Phosphodiesterase; Development; Ontogeny; Immunoblot (Zhang, K. (112) 11)

Bipolar cell
Development; Retina; Immunocytochemistry; Tachykinin receptor; Substance P; Amacrine cell; Rat (Oyamada, H. (117) 59)

Chicken retina; Development; Immunohistochemistry; Protein kinase C (Caminos, E. (118) 227)

Blood–brain barrier
Mouse; ZO-1 protein (Nico, B. (114) 161)

Hyperthermia; Hypoxic–ischemic tolerance; Newborn rat; MAP2; Cortisol (Ikeda, T. (117) 53)

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ICAM-2; PECAM; CD68; Spinal cord; Human fetal; Microglia; Colonisation (Rezaie, P. (115) 71)

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Brain
Damage; Development; Virus; Borna disease (Rubin, S.A. (112) 237)

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Monocarboxylate transporter (MCT1); Endothelium; Pericyte; Astrocyte; Neuron (Leino, R.L. (113) 47)

Brain-2
POU transcription factor; Developing olfactory bulb; Mitral cell; Tufted cell; Mitral/tufted cell; Granule cell (Hagino-Yamagishi, K. (113) 133)

Brain
Protein kinase C; Ethanol; Fetal alcohol syndrome; Growth; Chick embryo (McIntyre, T.A. (117) 191)

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Brain damage
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Brain development
Acetylcholine; Basal forebrain; Rett syndrome; Sex difference; Sympathetic ingrowth (Sherren, N. (114) 49)

Voltage-gated calcium channel blocker; Neuronal cell death; GABAergic interneuron; Apoptosis; Aggregate cell culture (Pardo, B. (115) 9)

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Brain slice
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Brainstem cholinergic pathway
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Bromodeoxyuridine
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Bulbectomy
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Ca^{2+}
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Primary sensory afferents; Spinal pattern generators; Activity dependent modification of synapses (Gibson, C.L. (115) 93)

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Retinal ganglion cell; Neurite; Outgrowth; Calcium (Heng, J.E. (113) 67)

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Calcium channel
Septum; Embryonic; Calcium; Septal culture (Thinschmidt, J.S. (118) 13)

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Carotid body
Glial cell; Cocaine; ELISA; Embryonic brain; Dopamine (Lipton, J.W. (118) 231)

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Catecholamine
Sympathoadrenal; Growth factor; NGF; Neuropeptide; Differentiation (Ramírez-Ordóñez, R. (114) 27)

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Ced-3
Apoptosis; Bcl-x; Caspase-3; Ced-9; Neuronal development (Urase, K. (116) 69)

Ced-9
Apoptosis; Bcl-x; Caspase-3; Ced-3; Neuronal development (Urase, K. (116) 69)

Cell culture
Oligodendroglia; Immunopanning; Development; Myelin; Astroglia (Ingraham, C.A. (112) 79)

Cholinergic; DAMGO; Naltrexone; Opioid; Fetal rat (Miller, J.H. (114) 69)

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Chicken embryo; Dendritic growth; Development; Neuronal death; Nitric oxide; Retrograde signal (Posada, A. (114) 37)

Cell ELISA
Regrowth ability; RGC culture; Extracellular matrix protein; Panning purification; Chick Thy-1 antibody (Brocco, M.A. (118) 23)

Cell proliferation
Cortical plate; Cerebral cortex; Neurogenesis; [^{3}H]Thymidine autoradiography; Ventricular zone (Miller, M.W. (115) 111)

Cellular and subcellular localization
Protein 4.1; Membrane skeleton; Cerebellum; Presynapse (Ohara, R. (117) 127)

Central chemoreceptor
Neonatal; Respiration; Immediate early gene; Nucleus tractus solitarii; Hypercapnia (Wickström, H.R. (112) 255)

Central nervous system
TrkB; BDNF; Development; Monkey; Western blotting (Ohira, K. (112) 21)

Receptor protein tyrosine kinase RYK; Development; In situ hybridization (Kamitori, K. (114) 149)

T-box gene; Neuronal differentiation; Development (Kimura, N. (115) 183)

Macrophage; Development; Progenitor (Alliot, F. (117) 145)

Cerebellar granule cell
Ganglioside; GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neurito-

genesis; Cortical neuron; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

Cerebellar granule cells
$GABA_A$ receptors; Proliferation; Voltage-gated calcium channels; Mitogen-activated protein kinase kinase; Depolarization (Fiszman, M.L. (115) 1)

Cerebellum
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Protein 4.1; Membrane skeleton; Cellular and subcellular localization; Presynapse (Ohara, R. (117) 127)

Cerebral blood flow
Cerebral blood volume; Colored microspheres; ^{99m}Technetium pertechnetate; Newborn piglet (Bauer, R. (112) 89)

Cerebral blood volume
Cerebral blood flow; Colored microspheres; ^{99m}Technetium pertechnetate; Newborn piglet (Bauer, R. (112) 89)

Cerebral cortex
Cytoskeletal protein; MAP5; Microtubule-associated protein; Nestin; Neurogenesis (Cheng, A. (113) 107)

Apoptosis; Bcl-2; Bax; Retinal ganglion cells; Hippocampus; Ischemia (Rickman, D.W. (115) 41)

Cell proliferation; Cortical plate; Neurogenesis; [^{3}H]Thymidine autoradiography; Ventricular zone (Miller, M.W. (115) 111)

Cerebral glucose metabolism
Developmental brain lesion effect; Cerebral oxidative metabolism; Relationships between cerebral metabolism and morphology; Neocortex (Villablanca, J.R. (117) 1)

Cerebral oxidative metabolism
Developmental brain lesion effect; Cerebral glucose metabolism; Relationships between cerebral metabolism and morphology; Neocortex (Villablanca, J.R. (117) 1)

Cerebrum
Neuronal migration; NMDA receptor; Ca^{2+}; Tissue culture (Hirai, K. (114) 63)

Neuronal migration; Ethanol; N-CAM; L1; Tissue culture (Hirai, K. (118) 205)

c-*fos*
Hypothalamic–pituitary–adrenal axis; Ontogeny; Corticotrophin-releasing hormone mRNA; Hormone (Dent, G.W. (117) 21)

Chick embryo
Isthmus; Organizer; Optic tectum; *Pax-2*; *Pax-5* (Okafuji, T. (116) 41)

Protein kinase C; Ethanol; Fetal alcohol syndrome; Growth; Brain (McIntyre, T.A. (117) 191)

Chicken embryo
Cell death; Dendritic growth; Development; Neuronal death; Nitric oxide; Retrograde signal (Posada, A. (114) 37)

Chicken retina
Bipolar cell; Development; Immunohistochemistry; Protein kinase C (Caminos, E. (118) 227)

Chick Thy-1 antibody
Regrowth ability; RGC culture; Extracellular matrix protein; Cell ELISA; Panning purification (Brocco, M.A. (118) 23)

Chlorpyrifos
Acetylcholine; Choline acetyltransferase; Development; Dopamine; Hemicholinium-3; Norepinephrine (Dam, K. (116) 9)

Development; Norepinephrine; Synaptosome (Dam, K. (118) 129)

Cholera toxin subunit B
Monodelphis; Motor neuron; Motoneuron; Brainstem; Migration (Swanson, J.J. (112) 159)

Choline
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Apoptosis; Neurogenesis; Septum; TOAD-64 (Albright, C.D. (115) 123)

Spatial memory; Long-term potentiation; Hippocampus (Jones III, J.P. (118) 159)

Choline acetyltransferase
Medial septum; Lateral septum; Diagonal band; Acetylcholine release presynaptic muscarinic autoreceptor; Postnatal development (Disko, U. (114) 1)

Acetylcholine; Chlorpyrifos; Development; Dopamine; Hemicholinium-3; Norepinephrine (Dam, K. (116) 9)

Retina; Development; Regeneration; Acetylcholinesterase (Cheon, E.W. (116) 97)

Choline chloride
Hippocampus; Perinatal development; Spatial memory; Working memory; Reference memory; Proactive interference; Nutrition; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Cholinergic
DAMGO; Cell culture; Naltrexone; Opioid; Fetal rat (Miller, J.H. (114) 69)

Cholinergic neuron
Apoptosis; Development; Neurotrophin receptor; Septo-hippocampal; Transgenic mouse (Ward, N.L. (118) 79)

Cholinergic receptor
Adenylyl cyclase; β-Adrenergic receptor; Muscarinic receptor; Nicotinic receptor; Sudden Infant Death Syndrome (SIDS) (Slotkin, T.A. (113) 1)

Chronic nicotine
Pregnant rat; Vasopressin; Offspring (Zbuzek, V.K. (112) 229)

Circadian rhythm
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Climbing fiber
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Clonal development
β1-integrin; Antisense retrovirus; Visual system; Neural retina (Skeith, A. (116) 123)

Cocaine
Glial cell; ELISA; Embryonic brain; Dopamine; Carotid body (Lipton, J.W. (118) 231)

Colonisation
ICAM-2; PECAM; CD68; Blood vessel; Spinal cord; Human fetal; Microglia (Rezaie, P. (115) 71)

Colored microspheres
Cerebral blood flow; Cerebral blood volume; ^{99m}Technetium pertechnetate; Newborn piglet (Bauer, R. (112) 89)

Connexin43
Rat brain; Postnatal development; Regional distribution (Åberg, N.D. (115) 97)

Cortical development
$GABA_A$ receptor; Subunit; Thalamocortical projection; Barrel; MK-801; BDNF; Elvax polymer (Penschuck, S. (112) 117)

Cortical neuron
Ganglioside; GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

Cortical plate
Corticocollicular neuron; Superior colliculus; Subplate; DiI; Neuronal development (Khachab, M.Y. (112) 145)

Cell proliferation; Cerebral cortex; Neurogenesis; [^{3}H]Thymidine autoradiography; Ventricular zone (Miller, M.W. (115) 111)

Cortical whisker barrel
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Corticocollicular growth
Superior colliculus; Topographic specificity; Laminar specificity; Retina; DiI; Development (Khachab, M.Y. (114) 179)

Corticocollicular neuron
Superior colliculus; Subplate; Cortical plate; DiI; Neuronal development (Khachab, M.Y. (112) 145)

Corticotrophin-releasing hormone mRNA
Hypothalamic–pituitary–adrenal axis; Ontogeny; Hormone; c-*fos* (Dent, G.W. (117) 21)

Cortisol
Hyperthermia; Hypoxic–ischemic tolerance; Newborn rat; Blood–brain barrier; MAP2 (Ikeda, T. (117) 53)

CRABP I
CRBP I; Olfactory; Embryogenesis; Mouse; Retinoic acid (Gustafson, A.-L. (114) 121)

CRBP I
CRABP I; Olfactory; Embryogenesis; Mouse; Retinoic acid (Gustafson, A.-L. (114) 121)

Cytokine
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Cytoskeletal protein
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Cytoskeleton
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D

Damage
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Development; Epilepsy; Flurothyl; Injury; Status epilepticus; Rat (Sperber, E.F. (116) 59)

DAMGO
Cholinergic; Cell culture; Naltrexone; Opioid; Fetal rat (Miller, J.H. (114) 69)

Dam–pup interactions
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Danio rerio
Ontogeny; Circadian rhythm; Photoreception; Pineal; Retina (Kazimi, N. (117) 47)

Dark rearing
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Dark-rearing
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D_1/D_2 receptor
Substance P; 5-$HT_{2A/C}$ receptor; Basal ganglia; Serotonin; Dopamine; Raphestriatal; Nigrostriatal (Basura, G.J. (112) 155)

Degeneration
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Dendritic growth
Cell death; Chicken embryo; Development; Neuronal death; Nitric oxide; Retrograde signal (Posada, A. (114) 37)

Dentate granule cell
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Dentate gyrus
Nitric oxide; Postnatal stimulation; Development; Ammon's horn; Transmitter location (Veenman, C.L. (114) 229)

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Dentate molecular layer
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$GABA_A$ receptors; Proliferation; Voltage-gated calcium channels; Mitogen-activated protein kinase kinase; Cerebellar granule cells (Fiszman, M.L. (115) 1)

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Descending pathway
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Descending pathways
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Developing brain
Bcl-2; Bax; Apoptosis; Naturally-occurring cell death; Methylazoxymethanol (MAM) acetate (López, E. (112) 149)

γ-Aminobutyric acid; 17β-Estradiol; Glutamate; Methyltestosterone; Tilapia (Wang, L.-H. (114) 273)

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POU transcription factor; Brain-2; Mitral cell; Tufted cell; Mitral/tufted cell; Granule cell (Hagino-Yamagishi, K. (113) 133)

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Phosphodiesterase; Ontogeny; Immunoblot; Beta adrenergic receptor (Zhang, K. (112) 11)

TrkB; BDNF; Monkey; Central nervous system; Western blotting (Ohira, K. (112) 21)

Vision; Superior colliculus; Tectum; Direction selectivity (Fortin, S. (112) 55)

Oligodendroglia; Immunopanning; Cell culture; Myelin; Astroglia (Ingraham, C.A. (112) 79)

δ-Opioid receptor blockade; Naltrindole; Manipulation; Adrenocortical reactivity to stress (Fernández, B. (112) 135)

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Axonal outgrowth; Descending pathway; Growth cone; Sprouting (Gianino, S. (112) 189)

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Brain; Damage; Virus; Borna disease (Rubin, S.A. (112) 237)

Purkinje neuron; Sodium pump; Membrane potential; Ouabain (Molnar, L.R. (112) 287)

Brain; Ischemia; Lactic acidosis; ^{31}P MRS; Microdialysis (Corbett, R. (113) 37)

Olfactory system; Y10b-immunocytochemistry; Protein synthesis; Ribosomes; Sensory deprivation (Fiske, B.K. (113) 55)

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Cajal–Retzius cell; Noradrenaline; Neocortex; Electron microscopy; Apoptosis (Naqui, S.Z.H. (113) 75)

Early life experience; Dam–pup interactions; Behavior; Satiety (McIntosh, J. (113) 97)

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Cell death; Chicken embryo; Dendritic growth; Neuronal death; Nitric oxide; Retrograde signal (Posada, A. (114) 37)

Olfactory mucosa; *Monodelphis domestica*; BrdU (Couper Leo, J.M. (114) 43)

$GABA_A$ receptor; Benzodiazepine; Miniature IPSCs; Hippocampal slices (Rovira, C. (114) 79)

Function; Rapid eye movement sleep; Activity-dependent; Visual cortex; Pontomesencephalon (Shaffery, J.P. (114) 109)

K^+ channels; Inward rectifier; RT-PCR; Immunocytochemistry; Patch-clamp recording (Ma, W. (114) 127)

Hippocampus; Modulation; Granule cell; Paired-pulse; Vigilance (Bronzino, J.D. (114) 143)

Receptor protein tyrosine kinase RYK; Central nervous system; In situ hybridization (Kamitori, K. (114) 149)

Superior colliculus; Topographic specificity; Laminar specificity; Retina; Corticocollicular growth; DiI (Khachab, M.Y. (114) 179)

Nitric oxide; Postnatal stimulation; Dentate gyrus; Ammon's horn; Transmitter location (Veenman, C.L. (114) 229)

Hippocampal formation; Granule cell; Dentate molecular layer; Synapse; Electron microscopy (Faber, K.M. (114) 245)

Olfactory epithelium; Apoptosis; Mouse; In situ nick translation; Tdt-mediated dUTP nick end-labeling (Voyron, S. (115) 49)

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Acetylcholine; Chlorpyrifos; Choline acetyltransferase; Dopamine; Hemicholinium-3; Norepinephrine (Dam, K. (116) 9)

Damage; Epilepsy; Flurothyl; Injury; Status epilepticus; Rat (Sperber, E.F. (116) 59)

Activity-dependent; On-center; Off-center; Retinal ganglion cell; Visual system (Cramer, K.S. (116) 79)

Cytoskeleton; Motoneuron; MAP; DRG; Spinal cord (Houweling, D.A. (116) 87)

Retina; Regeneration; Choline acetyltransferase; Acetylcholinesterase (Cheon, E.W. (116) 97)

Epilepsy; Opioid; Sex difference (Velíšková, J. (116) 119)

Mouse; Postnatal manipulation; Pain sensitivity; Morphine (D'Amato, F.R. (117) 15)

Retina; Immunocytochemistry; Tachykinin receptor; Substance P; Amacrine cell; Bipolar cell; Rat (Oyamada, H. (117) 59)

Posture; Vestibular system; Gastrocnemius-soleus muscle; Locomotion; Descending pathways (Brocard, F. (117) 81)

Retina; Pineal gland; Photoreceptor (Green, C.B. (117) 109)

Hippocampus; $GABA_A$-receptor; Synaptic inhibition; Rat (Psarropoulou, C. (117) 117)

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Human retina; Neurotrophin receptor; Trk A, Trk B, Trk C; Immunohistochemistry (Nag, T.C. (117) 179)

NMDA; AMPA; Autoradiography; Sheep (Anderson, K.J. (118) 69)

Apoptosis; Cholinergic neuron; Neurotrophin receptor; Septo-hippocampal; Transgenic mouse (Ward, N.L. (118) 79)

Chlorpyrifos; Norepinephrine; Synaptosome (Dam, K. (118) 129)

Bipolar cell; Chicken retina; Immunohistochemistry; Protein kinase C (Caminos, E. (118) 227)

Developmental brain lesion effect
Cerebral glucose metabolism; Cerebral oxidative metabolism; Relationships between cerebral metabolism and morphology; Neocortex (Villablanca, J.R. (117) 1)

Developmental expression
AMPA receptor; NMDA receptor; Triton X-100 (Park, H.T. (115) 83)

Developmental protein malnutrition
Nutritional rehabilitation; Noradrenaline release; Neuronal density; Histogenetic gradient; Occipital cortex; Rat (Soto-Moyano, R. (116) 51)

Diagonal band
Medial septum; Lateral septum; Acetylcholine release presynaptic muscarinic autoreceptor; Postnatal development; Choline acetyltransferase (Disko, U. (114) 1)

Differentiation
Somatostatin; NGF; PC12 cell; Ion channel (Rhie, D.-J. (112) 267)

Sympathoadrenal; Growth factor; NGF; Neuropeptide; Catecholamine (Ramírez-Ordóñez, R. (114) 27)

Differentiation marker
Islet-1; Proliferation; Neural crest; Dorsal root ganglia; Sympathetic ganglion (Avivi, C. (115) 89)

5,7-Dihydroxytryptamine
6-Hydroxydopamine; In situ hybridization; Serotonin 2C receptor; Basal ganglia; Substantia nigra; Dorsal raphe (Basura, G.J. (116) 111)

DiI
Corticocollicular neuron; Superior colliculus; Subplate; Cortical plate; Neuronal development (Khachab, M.Y. (112) 145)

Superior colliculus; Topographic specificity; Laminar specificity; Retina; Corticocollicular growth; Development (Khachab, M.Y. (114) 179)

Direction selectivity
Vision; Superior colliculus; Tectum; Development (Fortin, S. (112) 55)

Disorder of neuronal migration
Bromodeoxyuridine; Glial fibrillary acidic protein; Midkine; Neuroblast; Radial glial fiber (Sun, X.-Z. (114) 99)

L-DOPA
MK-801; Locomotion; Neonatal rat; Ontogeny; Gait (McEwen, M.L. (115) 33)

Dopamine
Substance P; 5-$HT_{2A/C}$ receptor; Basal ganglia; D_1/D_2 receptor; Serotonin; Raphestriatal; Nigrostriatal (Basura, G.J. (112) 155)

Acetylcholine; Chlorpyrifos; Choline acetyltransferase; Development; Hemicholinium-3; Norepinephrine (Dam, K. (116) 9)

Tyrosine hydroxylase; Hypothalamus; Pituitary intermediate lobe; Membrane (Niquet, J. (118) 39)

Glial cell; Cocaine; ELISA; Embryonic brain; Carotid body (Lipton, J.W. (118) 231)

Dopaminergic phenotype
Tyrosine hydroxylase expression; Human and rat foetal tissue; BDNF; Forskolin (Pliego Rivero, F.B. (114) 201)

Dorsal motor nucleus of the vagus
Astrocyte; Microglia; Nucleus of the solitary tract; Paraventricular nucleus of the hypothalamus (Rinaman, L. (114) 207)

Dorsal raphe
6-Hydroxydopamine; 5,7-Dihydroxytryptamine; In situ hybridization; Serotonin 2C receptor; Basal ganglia; Substantia nigra (Basura, G.J. (116) 111)

Dorsal root ganglia
Islet-1; Differentiation marker; Proliferation; Neural crest; Sympathetic ganglion (Avivi, C. (115) 89)

Dorsal root ganglion
Neurotrophin; Transgenic mouse; SH2/SH3 domain; Tyrosine kinase; Neuromuscular junction; Actin cytoskeleton (Weinstein, D.E. (116) 29)

Drebrin
Antisense; Neurite outgrowth; Suppression; Stable transfectant (Toda, M. (114) 193)

DRG
Cytoskeleton; Motoneuron; MAP; Spinal cord; Development (Houweling, D.A. (116) 87)

Drug abuse
Brain; Ectopic; Migration; Prenatal (Baraban, S.C. (117) 213)

E

Early life experience
Dam–pup interactions; Development; Behavior; Satiety (McIntosh, J. (113) 97)

Ectopic
Brain; Drug abuse; Migration; Prenatal (Baraban, S.C. (117) 213)

Electron microscopy
Cajal–Retzius cell; Noradrenaline; Neocortex; Development; Apoptosis (Naqui, S.Z.H. (113) 75)

Hippocampal formation; Granule cell; Dentate molecular layer; Development; Synapse (Faber, K.M. (114) 245)

Electrophysiology
Prenatal amphetamine; Microdialysis; Locus coeruleus; Psychosis; Noradrenergic system (Nasif, F.J. (112) 181)

ELISA
Glial cell; Cocaine; Embryonic brain; Dopamine; Carotid body (Lipton, J.W. (118) 231)

Elvax polymer
$GABA_A$ receptor; Subunit; Thalamocortical projection; Barrel; Cortical development; MK-801; BDNF (Penschuck, S. (112) 117)

Embryogenesis
CRBP I; CRABP I; Olfactory; Mouse; Retinoic acid (Gustafson, A.-L. (114) 121)

Embryonic
Septum; Calcium; Calcium channel; Septal culture (Thinschmidt, J.S. (118) 13)

Embryonic brain
Glial cell; Cocaine; ELISA; Dopamine; Carotid body (Lipton, J.W. (118) 231)

Embryonic retinal transplant
BDNF; NT4; NT3 (Atkinson, J. (112) 173)

EMG
Locomotion; Posture; Longissimus muscle; Rat; Development (Gramsbergen, A. (112) 217)

Endothelial cell differentiation
Blood–brain barrier; In vitro; Flow cytometry (Yu, D. (117) 159)

Endothelium
Monocarboxylate transporter (MCT1); Brain; Pericyte; Astrocyte; Neuron (Leino, R.L. (113) 47)

Epilepsy
Damage; Development; Flurothyl; Injury; Status epilepticus; Rat (Sperber, E.F. (116) 59)

Development; Opioid; Sex difference (Velíšková, J. (116) 119)

Hippocampus; Dentate gyrus; Paired-pulse inhibition (Huang, L.-T. (118) 99)

Epileptic field potential
Brain slice; Neocortex; Dark-rearing; Picrotoxin (Atapour, N. (117) 153)

17β-Estradiol
γ-Aminobutyric acid; Developing brain; Glutamate; Methyltestosterone; Tilapia (Wang, L.-H. (114) 273)

Estrogen receptor
Alternative splicing; Cerebellum; Granule cell; mRNA expression; RT-PCR (Belcher, S.M. (115) 57)

Sexual dimorphism; Hypothalamus; Genetic; Galanin (Brown, A.E. (115) 171)

Ethanol
BDNF; GDNF; Fetal alcohol syndrome; Neuroprotection (Bradley, D.M. (112) 99)

Serotonin; Raphe neuron; Ipsapirone (Tajuddin, N.F. (117) 91)

Protein kinase C; Fetal alcohol syndrome; Growth; Chick embryo; Brain (McIntyre, T.A. (117) 191)

Adult rat; Microencephaly; Neuronal loss; Norepinephrine; Stereology (Chen, W.-J.A. (118) 33)

Neuronal migration; Cerebrum; N-CAM; L1; Tissue culture (Hirai, K. (118) 205)

Extracellular matrix protein
Regrowth ability; RGC culture; Cell ELISA; Panning purification; Chick Thy-1 antibody (Brocco, M.A. (118) 23)

F

Fasciculus gracilis
Marsupial; Regeneration; Spinocerebellar; Spinobulbar; Spinothalamic (Terman, J.R. (112) 65)

Feedback connection
Synaptic plasticity; Secondary visual area (Tropea, D. (118) 61)

Fetal alcohol syndrome
BDNF; GDNF; Neuroprotection; Ethanol (Bradley, D.M. (112) 99)

Alcohol; Somatosensory; Thalamus; Trigeminal (Mooney, S.M. (117) 121)

Protein kinase C; Ethanol; Growth; Chick embryo; Brain (McIntyre, T.A. (117) 191)

Fetal rat
Cholinergic; DAMGO; Cell culture; Naltrexone; Opioid (Miller, J.H. (114) 69)

Fetal sheep
Hippocampus; Neuronal migration; Hypoxemia; Brain sparing effect (Braaksma, M.A. (114) 253)

Fetus
Hypoxia; FOS; Respiration; Motor activity (Nitsos, I. (114) 9)

Nitric oxide synthase; Norepinephrine; Arterial blood pressure; Nucleus tractus solitarius; Newborn (Ma, S.-X. (118) 119)

Flow cytometry
Blood–brain barrier; Endothelial cell differentiation; In vitro (Yu, D. (117) 159)

Flurothyl
Seizure; Hypoxia–ischemia; Kainic acid (Towfighi, J. (113) 83)

Damage; Development; Epilepsy; Injury; Status epilepticus; Rat (Sperber, E.F. (116) 59)

Fork head
Midbrain/hindbrain junction; Nomenclature; Regionalization (Alvarez-Bolado, G. (112) 205)

Forskolin
Dopaminergic phenotype; Tyrosine hydroxylase expression; Human and rat foetal tissue; BDNF (Pliego Rivero, F.B. (114) 201)

FOS
Fetus; Hypoxia; Respiration; Motor activity (Nitsos, I. (114) 9)

Function
Rapid eye movement sleep; Activity-dependent; Development; Visual cortex; Pontomesencephalon (Shaffery, J.P. (114) 109)

Functional compensation
Hippocampal formation; Dentate granule cell; In vitro extracellular recording; Synaptic plasticity (Haring, J.H. (114) 269)

G

GABAergic interneuron
Voltage-gated calcium channel blocker; Neuronal cell death; Apoptosis; Brain development; Aggregate cell culture (Pardo, B. (115) 9)

$GABA_A$ receptor
Subunit; Thalamocortical projection; Barrel; Cortical development; MK-801; BDNF; Elvax polymer (Penschuck, S. (112) 117)

Benzodiazepine; Development; Miniature IPSCs; Hippocampal slices (Rovira, C. (114) 79)

$GABA_A$-receptor
Development; Hippocampus; Synaptic inhibition; Rat (Psarropoulou, C. (117) 117)

$GABA_A$ receptors
Proliferation; Voltage-gated calcium channels; Mitogen-activated protein kinase kinase; Cerebellar granule cells; Depolarization (Fiszman, M.L. (115) 1)

Gait
L-DOPA; MK-801; Locomotion; Neonatal rat; Ontogeny (McEwen, M.L. (115) 33)

Galanin
Sexual dimorphism; Hypothalamus; Genetic; Estrogen receptor (Brown, A.E. (115) 171)

Galectin-1
Olfactory system; Olfactory ensheathing cell; Axon growth; Lectin (St John, J.A. (117) 171)

Ganglioside
GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Cortical neuron; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

Gastrocnemius-soleus muscle
Posture; Development; Vestibular system; Locomotion; Descending pathways (Brocard, F. (117) 81)

GDNF
BDNF; Fetal alcohol syndrome; Neuroprotection; Ethanol (Bradley, D.M. (112) 99)

Gene regulation
Transgenic mouse; Neural plate; Rhombomere; *Pax-2*; Transcription factor; Midbrain–hindbrain junction; *Sonic hedgehog* (Rowitch, D.H. (117) 99)

Genetic
Sexual dimorphism; Hypothalamus; Estrogen receptor; Galanin (Brown, A.E. (115) 171)

GFAP
Hippocampus; Schizophrenia; Kainic acid; Apoptosis; *jun*; HSP-70 (Montgomery, E.M.E. (112) 107)

Astrocyte; Oligodendrocyte; Myelin basic protein; Vimentin (Ono, K. (118) 211)

GIF
Growth inhibitory factor; Astrocyte; Neuron; Hypothyroidism; Hyperthyroid; MT-3 (Yeiser, E.C. (115) 195)

Glial boundary
Astrocyte; Tomato lectin; Optic tectum; Retinotectal system; Synapse (Miskevich, F. (115) 103)

Glial cell
Neurotensin receptor; Ontogeny; Levocabastine; In situ hybridization (Lépée-Lorgeoux, I. (113) 115)

Cocaine; ELISA; Embryonic brain; Dopamine; Carotid body (Lipton, J.W. (118) 231)

Glial cell line-derived neurotrophic factor
Weaver mutant mouse; Parkinson's disease; Tyrosine hydroxlase immunocytochemistry (Broome, J.D. (116) 1)

Glial fibrillary acidic protein
Bromodeoxyuridine; Disorder of neuronal migration; Midkine; Neuroblast; Radial glial fiber (Sun, X.-Z. (114) 99)

Glucocorticoid receptor messenger RNA
Rat; Stress; Maternal deprivation; Hippocampus; Hypothalamic paraventricular nucleus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Glutamate
γ-Aminobutyric acid; Developing brain; 17β-Estradiol; Methyltestosterone; Tilapia (Wang, L.-H. (114) 273)

Hypoxia–ischemia; Perinatal; Rat (Vannucci, R.C. (118) 147)

GM1 and neuritogenesis
Ganglioside; GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; Cerebellar granule cell; Cortical neuron; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

GM1 ganglioside
Ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Cortical neuron; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

Granule cell
POU transcription factor; Brain-2; Developing olfactory bulb; Mitral cell; Tufted cell; Mitral/tufted cell (Hagino-Yamagishi, K. (113) 133)

Hippocampus; Modulation; Paired-pulse; Vigilance; Development (Bronzino, J.D. (114) 143)

Hippocampal formation; Dentate molecular layer; Development; Synapse; Electron microscopy (Faber, K.M. (114) 245)

Alternative splicing; Cerebellum; Estrogen receptor; mRNA expression; RT-PCR (Belcher, S.M. (115) 57)

Growth
Protein kinase C; Ethanol; Fetal alcohol syndrome; Chick embryo; Brain (McIntyre, T.A. (117) 191)

Growth cone
Axonal outgrowth; Descending pathway; Development; Sprouting (Gianino, S. (112) 189)

Axonal guidance; Retinotectal projection; Retinal ganglion cell; Optic tectum (Ichijo, H. (117) 199)

Growth factor
Sympathoadrenal; NGF; Neuropeptide; Catecholamine; Differentiation (Ramírez-Ordóñez, R. (114) 27)

Growth inhibitory factor
GIF; Astrocyte; Neuron; Hypothyroidism; Hyperthyroid; MT-3 (Yeiser, E.C. (115) 195)

H

Hemicholinium-3
Acetylcholine; Chlorpyrifos; Choline acetyltransferase; Development; Dopamine; Norepinephrine (Dam, K. (116) 9)

High potassium
Akt; BDNF; c-Jun; LY294002 (Shimoke, K. (112) 245)

Hippocampal formation
Granule cell; Dentate molecular layer; Development; Synapse; Electron microscopy (Faber, K.M. (114) 245)

Dentate granule cell; In vitro extracellular recording; Synaptic plasticity; Functional compensation (Haring, J.H. (114) 269)

Hippocampal slices
$GABA_A$ receptor; Benzodiazepine; Development; Miniature IPSCs (Rovira, C. (114) 79)

Hippocampus
Metabotropic glutamate receptor 1; Metabotropic glutamate receptor 5; Inositol 1,4,5-trisphosphate receptor type 1; In situ hybridization; In utero hypoxia–ischemia (Simonyi, A. (112) 31)

Schizophrenia; Kainic acid; Apoptosis; *jun*; HSP-70; GFAP (Montgomery, E.M.E. (112) 107)

Mossy fiber; Laminar structure; X-irradiation; In utero (Miki, T. (112) 275)

Apoptosis; Choline; Neurogenesis; Septum; TOAD-64 (Albright, C.D. (113) 13)

Modulation; Granule cell; Paired-pulse; Vigilance; Development (Bronzino, J.D. (114) 143)

Neuronal migration; Fetal sheep; Hypoxemia; Brain sparing effect (Braaksma, M.A. (114) 253)

Glucocorticoid receptor messenger RNA; Rat; Stress; Maternal deprivation; Hypothalamic paraventricular nucleus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Apoptosis; Bcl-2; Bax; Retinal ganglion cells; Cerebral cortex; Ischemia (Rickman, D.W. (115) 41)

Development; $GABA_A$-receptor; Synaptic inhibition; Rat (Psarropoulou, C. (117) 117)

Choline chloride; Perinatal development; Spatial memory; Working memory; Reference memory; Proactive interference; Nutrition; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Epilepsy; Dentate gyrus; Paired-pulse inhibition (Huang, L.-T. (118) 99)

Choline; Spatial memory; Long-term potentiation (Jones III, J.P. (118) 159)

Carbamazepine; Seizure (Rashid, S. (118) 221)

Histogenetic gradient
Developmental protein malnutrition; Nutritional rehabilitation; Noradrenaline release; Neuronal density; Occipital cortex; Rat (Soto-Moyano, R. (116) 51)

Histone
Retina cell type; Terminal differentiation (Miguel-Hidalgo, J.J. (117) 39)

Hormone
Hypothalamic–pituitary–adrenal axis; Ontogeny; Corticotrophin-releasing hormone mRNA; c-*fos* (Dent, G.W. (117) 21)

HSP-70
Hippocampus; Schizophrenia; Kainic acid; Apoptosis; *jun*; GFAP (Montgomery, E.M.E. (112) 107)

5-$HT_{2A/C}$ receptor
Substance P; Basal ganglia; D_1/D_2 receptor; Serotonin; Dopamine; Raphestriatal; Nigrostriatal (Basura, G.J. (112) 155)

Human and rat foetal tissue
Dopaminergic phenotype; Tyrosine hydroxylase expression; BDNF; Forskolin (Pliego Rivero, F.B. (114) 201)

Human fetal
ICAM-2; PECAM; CD68; Blood vessel; Spinal cord; Microglia; Colonisation (Rezaie, P. (115) 71)

Human retina
Development; Neurotrophin receptor; Trk A, Trk B, Trk C; Immunohistochemistry (Nag, T.C. (117) 179)

6-Hydroxydopamine
5,7-Dihydroxytryptamine; In situ hybridization; Serotonin 2C receptor; Basal ganglia; Substantia nigra; Dorsal raphe (Basura, G.J. (116) 111)

Hypercapnia
Neonatal; Respiration; Immediate early gene; Central chemoreceptor; Nucleus tractus solitarii (Wickström, H.R. (112) 255)

Hyperoxia
Stellation; Astrocyte migration; Retinal development; Hypoxia (Zhang, Y. (118) 135)

Hypertension
Angiotensin II; AT1 receptor; Rat (Porter, J.P. (112) 293)

Hyperthermia
Hypoxic–ischemic tolerance; Newborn rat; Blood–brain barrier; MAP2; Cortisol (Ikeda, T. (117) 53)

Neonatal; Hypoxia–ischemia; Brain damage; Hypothermia; Stroke; Immature rat (Yager, J.Y. (117) 139)

Hyperthyroid
Growth inhibitory factor; GIF; Astrocyte; Neuron; Hypothyroidism; MT-3 (Yeiser, E.C. (115) 195)

Hypothalamic paraventricular nucleus
Glucocorticoid receptor messenger RNA; Rat; Stress; Maternal deprivation; Hippocampus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Hypothalamic–pituitary–adrenal axis
Ontogeny; Corticotrophin-releasing hormone mRNA; Hormone; c-*fos* (Dent, G.W. (117) 21)

Hypothalamus
Calbindin-D_{28K}; Prenatal development; Sexual differentiation; Rat; Western analysis; Phytoestrogen (Taylor, H. (114) 277)

Sexual dimorphism; Genetic; Estrogen receptor; Galanin (Brown, A.E. (115) 171)

Tyrosine hydroxylase; Dopamine; Pituitary intermediate lobe; Membrane (Niquet, J. (118) 39)

Hypothermia
Neonatal; Hypoxia–ischemia; Brain damage; Hyperthermia; Stroke; Immature rat (Yager, J.Y. (117) 139)

Hypothyroidism
Growth inhibitory factor; GIF; Astrocyte; Neuron; Hyperthyroid; MT-3 (Yeiser, E.C. (115) 195)

Hypoxemia
Hippocampus; Neuronal migration; Fetal sheep; Brain sparing effect (Braaksma, M.A. (114) 253)

Hypoxia
Fetus; FOS; Respiration; Motor activity (Nitsos, I. (114) 9)

Stellation; Astrocyte migration; Retinal development; Hyperoxia (Zhang, Y. (118) 135)

Hypoxia–ischemia
Seizure; Kainic acid; Flurothyl (Towfighi, J. (113) 83)

Neonatal; Brain damage; Hypothermia; Hyperthermia; Stroke; Immature rat (Yager, J.Y. (117) 139)

Glutamate; Perinatal; Rat (Vannucci, R.C. (118) 147)

Hypoxic–ischemic tolerance
Hyperthermia; Newborn rat; Blood–brain barrier; MAP2; Cortisol (Ikeda, T. (117) 53)

I

ICAM-2
PECAM; CD68; Blood vessel; Spinal cord; Human fetal; Microglia; Colonisation (Rezaie, P. (115) 71)

IGFBP-2
Bcl-2; IGF-I; Apoptosis; Neuronal cell death; Transgenic mouse (Baker, N.L. (118) 109)

IGF-I
Brainstem; Morphometry; Postnatal development; Transgenic mouse (Dentremont, K.D. (114) 135)

Bcl-2; IGFBP-2; Apoptosis; Neuronal cell death; Transgenic mouse (Baker, N.L. (118) 109)

Immature rat
Neonatal; Hypoxia–ischemia; Brain damage; Hypothermia; Hyperthermia; Stroke (Yager, J.Y. (117) 139)

Immediate early gene
Neonatal; Respiration; Central chemoreceptor; Nucleus tractus solitarii; Hypercapnia (Wickström, H.R. (112) 255)

Immunoblot
Phosphodiesterase; Development; Ontogeny; Beta adrenergic receptor (Zhang, K. (112) 11)

Immunocytochemistry
K^+ channels; Inward rectifier; Development; RT-PCR; Patch-clamp recording (Ma, W. (114) 127)

Development; Retina; Tachykinin receptor; Substance P; Amacrine cell; Bipolar cell; Rat (Oyamada, H. (117) 59)

Acetylcholine; Nitric oxide; Transgenic mouse; Brainstem cholinergic pathway; Pedunculopontine tegmental nucleus (Scheiner, C.A. (118) 217)

Immunohistochemistry
Human retina; Development; Neurotrophin receptor; Trk A, Trk B, Trk C (Nag, T.C. (117) 179)

Palmitoyl protein thioesterase; Neuronal ceroid lipofuscinosis; Synaptogenesis; In situ hybridization; Neurodegeneration (Isosomppi, J. (118) 1)

Bipolar cell; Chicken retina; Development; Protein kinase C (Caminos, E. (118) 227)

Immunopanning
Oligodendroglia; Cell culture; Development; Myelin; Astroglia (Ingraham, C.A. (112) 79)

Injury
Damage; Development; Epilepsy; Flurothyl; Status epilepticus; Rat (Sperber, E.F. (116) 59)

Inositol 1,4,5-trisphosphate receptor type 1
Metabotropic glutamate receptor 1; Metabotropic glutamate receptor 5; In situ hybridization; In utero hypoxia–ischemia; Hippocampus (Simonyi, A. (112) 31)

In situ hybridisation
Metabotropic glutamate receptor; Spinal cord; Rat; Postnatal mRNA expression (Berthele, A. (112) 39)

In situ hybridization
Metabotropic glutamate receptor 1; Metabotropic glutamate receptor 5; Inositol 1,4,5-trisphosphate receptor type 1; In utero hypoxia–ischemia; Hippocampus (Simonyi, A. (112) 31)

Neurotensin receptor; Ontogeny; Levocabastine; Glial cell (Lépée-Lorgeoux, I. (113) 115)

Receptor protein tyrosine kinase RYK; Central nervous system; Development (Kamitori, K. (114) 149)

6-Hydroxydopamine; 5,7-Dihydroxytryptamine; Serotonin 2C receptor; Basal ganglia; Substantia nigra; Dorsal raphe (Basura, G.J. (116) 111)

Palmitoyl protein thioesterase; Neuronal ceroid lipofuscinosis; Synaptogenesis; Immunohistochemistry; Neurodegeneration (Isosomppi, J. (118) 1)

In situ nick translation
Olfactory epithelium; Apoptosis; Development; Mouse; Tdt-mediated dUTP nick end-labeling (Voyron, S. (115) 49)

β1-integrin
Antisense retrovirus; Clonal development; Visual system; Neural retina (Skeith, A. (116) 123)

Intrinsic property
Sensory cortex; Onset cell; Postnatal development; Thalamocortical; Outward rectification (Metherate, R. (115) 131)

In utero
Hippocampus; Mossy fiber; Laminar structure; X-irradiation (Miki, T. (112) 275)

In utero hypoxia–ischemia
Metabotropic glutamate receptor 1; Metabotropic glutamate receptor 5; Inositol 1,4,5-trisphosphate receptor type 1; In situ hybridization; Hippocampus (Simonyi, A. (112) 31)

In vitro
Substance P; Respiratory rhythm; Phrenic motoneuron; Whole cell recording; Newborn and fetal rat (Ptak, K. (114) 217)

Blood–brain barrier; Endothelial cell differentiation; Flow cytometry (Yu, D. (117) 159)

In vitro extracellular recording
Hippocampal formation; Dentate granule cell; Synaptic plasticity; Functional compensation (Haring, J.H. (114) 269)

Inward rectifier
K^+ channels; Development; RT-PCR; Immunocytochemistry; Patch-clamp recording (Ma, W. (114) 127)

Ion channel
Somatostatin; NGF; PC12 cell; Differentiation (Rhie, D.-J. (112) 267)

Ion channels
Potassium channels; Auxiliary subunits; Kvβ1; Kvβ2; Mouse (Downen, M. (117) 71)

Ipsapirone
Ethanol; Serotonin; Raphe neuron (Tajuddin, N.F. (117) 91)

Ischemia
Brain; Lactic acidosis; Development; ^{31}P MRS; Microdialysis (Corbett, R. (113) 37)

Apoptosis; Bcl-2; Bax; Retinal ganglion cells; Cerebral cortex; Hippocampus (Rickman, D.W. (115) 41)

Islet-1
Differentiation marker; Proliferation; Neural crest; Dorsal root ganglia; Sympathetic ganglion (Avivi, C. (115) 89)

Isthmus
Organizer; Optic tectum; *Pax-2*; *Pax-5*; Chick embryo (Okafuji, T. (116) 41)

J

jun
Hippocampus; Schizophrenia; Kainic acid; Apoptosis; HSP-70; GFAP (Montgomery, E.M.E. (112) 107)

c-Jun
Akt; BDNF; High potassium; LY294002 (Shimoke, K. (112) 245)

Juvenile
Maternal behavior; Opioid; Arcuate nucleus (Mann, P.E. (116) 21)

K

Kainic acid
Hippocampus; Schizophrenia; Apoptosis; *jun*; HSP-70; GFAP (Montgomery, E.M.E. (112) 107)

Seizure; Hypoxia–ischemia; Flurothyl (Towfighi, J. (113) 83)

Status epilepticus; NBQX; Development (Mikati, M.A. (113) 139)

K^+ channels
Inward rectifier; Development; RT-PCR; Immunocytochemistry; Patch-clamp recording (Ma, W. (114) 127)

Kvβ1
Potassium channels; Auxiliary subunits; Kvβ2; Mouse; Ion channels (Downen, M. (117) 71)

Kvβ2
Potassium channels; Auxiliary subunits; Kvβ1; Mouse; Ion channels (Downen, M. (117) 71)

L

L1
Neuronal migration; Cerebrum; Ethanol; N-CAM; Tissue culture (Hirai, K. (118) 205)

Lactic acidosis
Brain; Ischemia; Development; ^{31}P MRS; Microdialysis (Corbett, R. (113) 37)

Laminar specificity
Superior colliculus; Topographic specificity; Retina; Corticocollicular growth; DiI; Development (Khachab, M.Y. (114) 179)

Laminar structure
Hippocampus; Mossy fiber; X-irradiation; In utero (Miki, T. (112) 275)

Lateral septum
Medial septum; Diagonal band; Acetylcholine release presynaptic muscarinic autoreceptor; Postnatal development; Choline acetyltransferase (Disko, U. (114) 1)

Layer IV
Primed-burst stimulation; Long-term potentiation; Visual cortex; White matter (Salami, M. (118) 93)

Lectin
Galectin-1; Olfactory system; Olfactory ensheathing cell; Axon growth (St John, J.A. (117) 171)

Levocabastine
Neurotensin receptor; Ontogeny; Glial cell; In situ hybridization (Lépée-Lorgeoux, I. (113) 115)

Locomotion
Posture; EMG; Longissimus muscle; Rat; Development (Gramsbergen, A. (112) 217)

L-DOPA; MK-801; Neonatal rat; Ontogeny; Gait (McEwen, M.L. (115) 33)

Posture; Development; Vestibular system; Gastrocnemius-soleus muscle; Descending pathways (Brocard, F. (117) 81)

Locus coeruleus
Prenatal amphetamine; Microdialysis; Psychosis; Electrophysiology; Noradrenergic system (Nasif, F.J. (112) 181)

Cortical whisker barrel; Somatosensory system; Ontogeny of memory (Landers, M.S. (114) 261)

Longissimus muscle
Locomotion; Posture; EMG; Rat; Development (Gramsbergen, A. (112) 217)

Long term depression
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Long-term potentiation
Primed-burst stimulation; Visual cortex; Layer IV; White matter (Salami, M. (118) 93)

Choline; Spatial memory; Hippocampus (Jones III, J.P. (118) 159)

LY294002
Akt; BDNF; High potassium; c-Jun (Shimoke, K. (112) 245)

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Macrophage
Central nervous system; Development; Progenitor (Alliot, F. (117) 145)

Manipulation
Development; δ-Opioid receptor blockade; Naltrindole; Adrenocortical reactivity to stress (Fernández, B. (112) 135)

MAP5
Cerebral cortex; Cytoskeletal protein; Microtubule-associated protein; Nestin; Neurogenesis (Cheng, A. (113) 107)

MAP
Cytoskeleton; Motoneuron; DRG; Spinal cord; Development (Houweling, D.A. (116) 87)

MAP2
Hyperthermia; Hypoxic–ischemic tolerance; Newborn rat; Blood–brain barrier; Cortisol (Ikeda, T. (117) 53)

MARCKS
B-50 (GAP-43); Protein kinase C; Muscarinic receptor (Haas, M.S. (114) 89)

Marsupial
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Degeneration; Neurotrophins; Plasticity; Red nucleus; Regeneration (Wang, X.M. (118) 177)

Maternal behavior
Juvenile; Opioid; Arcuate nucleus (Mann, P.E. (116) 21)

Maternal deprivation
Glucocorticoid receptor messenger RNA; Rat; Stress; Hippocampus; Hypothalamic paraventricular nucleus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Medial septum
Lateral septum; Diagonal band; Acetylcholine release presynaptic muscarinic autoreceptor; Postnatal development; Choline acetyltransferase (Disko, U. (114) 1)

Membrane
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Membrane potential
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Membrane skeleton
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Metabotropic glutamate receptor 1
Metabotropic glutamate receptor 5; Inositol 1,4,5-trisphosphate receptor type 1; In situ hybridization; In utero hypoxia–ischemia; Hippocampus (Simonyi, A. (112) 31)

Metabotropic glutamate receptor 5
Metabotropic glutamate receptor 1; Inositol 1,4,5-trisphosphate receptor type 1; In situ hybridization; In utero hypoxia–ischemia; Hippocampus (Simonyi, A. (112) 31)

Metabotropic glutamate receptor
Spinal cord; Rat; Postnatal mRNA expression; In situ hybridisation (Berthele, A. (112) 39)

Metamorphosis
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Methylazoxymethanol (MAM) acetate
Bcl-2; Bax; Apoptosis; Naturally-occurring cell death; Developing brain (López, E. (112) 149)

Methyltestosterone
γ-Aminobutyric acid; Developing brain; 17β-Estradiol; Glutamate; Tilapia (Wang, L.-H. (114) 273)

Microdialysis
Prenatal amphetamine; Locus coeruleus; Psychosis; Electrophysiology; Noradrenergic system (Nasif, F.J. (112) 181)

Brain; Ischemia; Lactic acidosis; Development; ^{31}P MRS (Corbett, R. (113) 37)

Microencephaly
Adult rat; Ethanol; Neuronal loss; Norepinephrine; Stereology (Chen, W.-J.A. (118) 33)

Microglia
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ICAM-2; PECAM; CD68; Blood vessel; Spinal cord; Human fetal; Colonisation (Rezaie, P. (115) 71)

Microtubule-associated protein
Cerebral cortex; Cytoskeletal protein; MAP5; Nestin; Neurogenesis (Cheng, A. (113) 107)

Midbrain / hindbrain junction
Fork head; Nomenclature; Regionalization (Alvarez-Bolado, G. (112) 205)

Midbrain–hindbrain junction
Transgenic mouse; Gene regulation; Neural plate; Rhombomere; *Pax-2*; Transcription factor; *Sonic hedgehog* (Rowitch, D.H. (117) 99)

Midkine
Bromodeoxyuridine; Disorder of neuronal migration; Glial fibrillary acidic protein; Neuroblast; Radial glial fiber (Sun, X.-Z. (114) 99)

Migration
Monodelphis; Cholera toxin subunit B; Motor neuron; Motoneuron; Brainstem (Swanson, J.J. (112) 159)

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Miniature IPSCs
$GABA_A$ receptor; Benzodiazepine; Development; Hippocampal slices (Rovira, C. (114) 79)

Mitogen-activated protein kinase kinase
$GABA_A$ receptors; Proliferation; Voltage-gated calcium channels; Cerebellar granule cells; Depolarization (Fiszman, M.L. (115) 1)

Mitral cell
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Mitral / tufted cell
POU transcription factor; Brain-2; Developing olfactory bulb; Mitral cell; Tufted cell; Granule cell (Hagino-Yamagishi, K. (113) 133)

MK-801
$GABA_A$ receptor; Subunit; Thalamocortical projection; Barrel; Cortical development; BDNF; Elvax polymer (Penschuck, S. (112) 117)

L-DOPA; Locomotion; Neonatal rat; Ontogeny; Gait (McEwen, M.L. (115) 33)

Modulation
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Monkey
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Monocarboxylate transporter (MCT1)
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Monodelphis
Cholera toxin subunit B; Motor neuron; Motoneuron; Brainstem; Migration (Swanson, J.J. (112) 159)

Monodelphis domestica
Olfactory mucosa; Development; BrdU (Couper Leo, J.M. (114) 43)

Morphine
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Morphometry
Brainstem; IGF-I; Postnatal development; Transgenic mouse (Dentremont, K.D. (114) 135)

Mossy fiber
Hippocampus; Laminar structure; X-irradiation; In utero (Miki, T. (112) 275)

Neuropeptide; Climbing fiber (Overbeck, T.L. (115) 145)

Motoneuron
Monodelphis; Cholera toxin subunit B; Motor neuron; Brainstem; Migration (Swanson, J.J. (112) 159)

Cytoskeleton; MAP; DRG; Spinal cord; Development (Houweling, D.A. (116) 87)

Motor activity
Fetus; Hypoxia; FOS; Respiration (Nitsos, I. (114) 9)

Motor neuron
Monodelphis; Cholera toxin subunit B; Motoneuron; Brainstem; Migration (Swanson, J.J. (112) 159)

Mouse
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Blood–brain barrier; ZO-1 protein (Nico, B. (114) 161)

Olfactory epithelium; Apoptosis; Development; In situ nick translation; Tdt-mediated dUTP nick end-labeling (Voyron, S. (115) 49)

Postnatal manipulation; Development; Pain sensitivity; Morphine (D'Amato, F.R. (117) 15)

Potassium channels; Auxiliary subunits; Kvβ1; Kvβ2; Ion channels (Downen, M. (117) 71)

MT-3
Growth inhibitory factor; GIF; Astrocyte; Neuron; Hypothyroidism; Hyperthyroid (Yeiser, E.C. (115) 195)

Muscarinic receptor
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B-50 (GAP-43); MARCKS; Protein kinase C (Haas, M.S. (114) 89)

MuSK
Neuromuscular synapse; Agrin; Rapsyn; Acetylcholine receptor (Gautam, M. (114) 171)

Myelin
Oligodendroglia; Immunopanning; Cell culture; Development; Astroglia (Ingraham, C.A. (112) 79)

Myelin basic protein
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Naltrexone
Cholinergic; DAMGO; Cell culture; Opioid; Fetal rat (Miller, J.H. (114) 69)

Naltrindole
Development; δ-Opioid receptor blockade; Manipulation; Adrenocortical reactivity to stress (Fernández, B. (112) 135)

Naturally-occurring cell death
Bcl-2; Bax; Apoptosis; Developing brain; Methylazoxymethanol (MAM) acetate (López, E. (112) 149)

NBQX
Status epilepticus; Kainic acid; Development (Mikati, M.A. (113) 139)

N-CAM
Neuronal migration; Cerebrum; Ethanol; L1; Tissue culture (Hirai, K. (118) 205)

Neocortex
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Developmental brain lesion effect; Cerebral glucose metabolism; Cerebral oxidative metabolism; Relationships between cerebral metabolism and morphology (Villablanca, J.R. (117) 1)

Brain slice; Epileptic field potential; Dark-rearing; Picrotoxin (Atapour, N. (117) 153)

Neonatal
Respiration; Immediate early gene; Central chemoreceptor; Nucleus tractus solitarii; Hypercapnia (Wickström, H.R. (112) 255)

Hypoxia–ischemia; Brain damage; Hypothermia; Hyperthermia; Stroke; Immature rat (Yager, J.Y. (117) 139)

Neonatal rat
L-DOPA; MK-801; Locomotion; Ontogeny; Gait (McEwen, M.L. (115) 33)

Nestin
Cerebral cortex; Cytoskeletal protein; MAP5; Microtubule-associated protein; Neurogenesis (Cheng, A. (113) 107)

Neural crest
Islet-1; Differentiation marker; Proliferation; Dorsal root ganglia; Sympathetic ganglion (Avivi, C. (115) 89)

Neural plate
Transgenic mouse; Gene regulation; Rhombomere; *Pax-2*; Transcription factor; Midbrain–hindbrain junction; *Sonic hedgehog* (Rowitch, D.H. (117) 99)

Neural retina
β1-integrin; Antisense retrovirus; Clonal development; Visual system (Skeith, A. (116) 123)

Neurite
Retinal ganglion cell; Calcium; Outgrowth; Calcium (Heng, J.E. (113) 67)

Retinal ganglion cell; Thy-1; Outgrowth (Simon, P.D. (117) 219)

Neurite outgrowth
Drebrin; Antisense; Suppression; Stable transfectant (Toda, M. (114) 193)

Neuroblast
Bromodeoxyuridine; Disorder of neuronal migration; Glial fibrillary acidic protein; Midkine; Radial glial fiber (Sun, X.-Z. (114) 99)

Neurodegeneration
Palmitoyl protein thioesterase; Neuronal ceroid lipofuscinosis; Synaptogenesis; In situ hybridization; Immunohistochemistry (Isosomppi, J. (118) 1)

Neurogenesis
Apoptosis; Choline; Hippocampus; Septum; TOAD-64 (Albright, C.D. (113) 13)

Cerebral cortex; Cytoskeletal protein; MAP5; Microtubule-associated protein; Nestin (Cheng, A. (113) 107)

Cell proliferation; Cortical plate; Cerebral cortex; [^{3}H]Thymidine autoradiography; Ventricular zone (Miller, M.W. (115) 111)

Apoptosis; Choline; Septum; TOAD-64 (Albright, C.D. (115) 123)

Neuromuscular junction
Dorsal root ganglion; Neurotrophin; Transgenic mouse; SH2/SH3 domain; Tyrosine kinase; Actin cytoskeleton (Weinstein, D.E. (116) 29)

Neuromuscular synapse
Agrin; Rapsyn; MuSK; Acetylcholine receptor (Gautam, M. (114) 171)

Neuron
Monocarboxylate transporter (MCT1); Brain; Endothelium; Pericyte; Astrocyte (Leino, R.L. (113) 47)

Growth inhibitory factor; GIF; Astrocyte; Hypothyroidism; Hyperthyroid; MT-3 (Yeiser, E.C. (115) 195)

Neuronal cell death
Voltage-gated calcium channel blocker; GABAergic interneuron; Apoptosis; Brain development; Aggregate cell culture (Pardo, B. (115) 9)

Neurotrophic factor; Neurotrophin; *trk*; Cytokine (Hashimoto, Y. (115) 25)

Bcl-2; IGF-I; IGFBP-2; Apoptosis; Transgenic mouse (Baker, N.L. (118) 109)

Neuronal ceroid lipofuscinosis
Palmitoyl protein thioesterase; Synaptogenesis; In situ hybridization; Immunohistochemistry; Neurodegeneration (Isosomppi, J. (118) 1)

Neuronal damage
Seizure; Status epilepticus; Pentylenetetrazol; TUNEL staining; Development (Pineau, N. (112) 139)

Neuronal death
Cell death; Chicken embryo; Dendritic growth; Development; Nitric oxide; Retrograde signal (Posada, A. (114) 37)

Neuronal density
Developmental protein malnutrition; Nutritional rehabilitation; Noradrenaline release; Histogenetic gradient; Occipital cortex; Rat (Soto-Moyano, R. (116) 51)

Neuronal development
Corticocollicular neuron; Superior colliculus; Subplate; Cortical plate; DiI (Khachab, M.Y. (112) 145)

Apoptosis; Bcl-x; Caspase-3; Ced-3; Ced-9 (Urase, K. (116) 69)

Neuronal differentiation
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Neuronal loss
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Neuronal migration
Cerebrum; NMDA receptor; Ca^{2+}; Tissue culture (Hirai, K. (114) 63)

Hippocampus; Fetal sheep; Hypoxemia; Brain sparing effect (Braaksma, M.A. (114) 253)

Cerebrum; Ethanol; N-CAM; L1; Tissue culture (Hirai, K. (118) 205)

Neuropeptide
Sympathoadrenal; Growth factor; NGF; Catecholamine; Differentiation (Ramírez-Ordóñez, R. (114) 27)

Climbing fiber; Mossy fiber (Overbeck, T.L. (115) 145)

Neuroprotection
BDNF; GDNF; Fetal alcohol syndrome; Ethanol (Bradley, D.M. (112) 99)

Neurosteroid
Benzodiazepine; γ-Aminobutyric acid; Ontogeny (Bailey, C.D.C. (113) 21)

Brain development; Progesterone; Testosterone; Non-genomic (Kellogg, C.K. (115) 17)

Neurotensin receptor
Ontogeny; Levocabastine; Glial cell; In situ hybridization (Lépée-Lorgeoux, I. (113) 115)

Neurotrophic factor
Neuronal cell death; Neurotrophin; *trk*; Cytokine (Hashimoto, Y. (115) 25)

Neurotrophin
Neuronal cell death; Neurotrophic factor; *trk*; Cytokine (Hashimoto, Y. (115) 25)

Dorsal root ganglion; Transgenic mouse; SH2/SH3 domain; Tyrosine kinase; Neuromuscular junction; Actin cytoskeleton (Weinstein, D.E. (116) 29)

Neurotrophin receptor
Human retina; Development; Trk A, Trk B, Trk C; Immunohistochemistry (Nag, T.C. (117) 179)

Apoptosis; Cholinergic neuron; Development; Septo-hippocampal; Transgenic mouse (Ward, N.L. (118) 79)

Neurotrophins
Degeneration; Marsupial; Plasticity; Red nucleus; Regeneration (Wang, X.M. (118) 177)

Newborn
Nitric oxide synthase; Norepinephrine; Arterial blood pressure; Nucleus tractus solitarius; Fetus (Ma, S.-X. (118) 119)

Newborn and fetal rat
Substance P; Respiratory rhythm; Phrenic motoneuron; Whole cell recording; In vitro (Ptak, K. (114) 217)

Newborn piglet
Cerebral blood flow; Cerebral blood volume; Colored microspheres; ^{99m}-Technetium pertechnetate (Bauer, R. (112) 89)

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NGF
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Sympathoadrenal; Growth factor; Neuropeptide; Catecholamine; Differentiation (Ramírez-Ordóñez, R. (114) 27)

NG108-15 neuroblastoma cell
Ganglioside; GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Cortical neuron; Superior cervical ganglion neuron (Kozireski-Chuback, D. (115) 201)

Nicotinic acetylcholine receptor
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Nicotinic receptor
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Nigrostriatal
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Nitric oxide
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Postnatal stimulation; Development; Dentate gyrus; Ammon's horn; Transmitter location (Veenman, C.L. (114) 229)

Immunocytochemistry; Acetylcholine; Transgenic mouse; Brainstem cholinergic pathway; Pedunculopontine tegmental nucleus (Scheiner, C.A. (118) 217)

Nitric oxide synthase
Norepinephrine; Arterial blood pressure; Nucleus tractus solitarius; Fetus; Newborn (Ma, S.-X. (118) 119)

NMDA
AMPA; Autoradiography; Sheep; Development (Anderson, K.J. (118) 69)

NMDA receptor
Neuronal migration; Cerebrum; Ca^{2+}; Tissue culture (Hirai, K. (114) 63)

AMPA receptor; Developmental expression; Triton X-100 (Park, H.T. (115) 83)

Nomenclature
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Non-genomic
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Noradrenaline
Cajal–Retzius cell; Neocortex; Development; Electron microscopy; Apoptosis (Naqui, S.Z.H. (113) 75)

Noradrenaline release
Developmental protein malnutrition; Nutritional rehabilitation; Neuronal density; Histogenetic gradient; Occipital cortex; Rat (Soto-Moyano, R. (116) 51)

Noradrenergic system
Prenatal amphetamine; Microdialysis; Locus coeruleus; Psychosis; Electrophysiology (Nasif, F.J. (112) 181)

Norepinephrine
Acetylcholine; Chlorpyrifos; Choline acetyltransferase; Development; Dopamine; Hemicholinium-3 (Dam, K. (116) 9)

Adult rat; Ethanol; Microencephaly; Neuronal loss; Stereology (Chen, W.-J.A. (118) 33)

Nitric oxide synthase; Arterial blood pressure; Nucleus tractus solitarius; Fetus; Newborn (Ma, S.-X. (118) 119)

Chlorpyrifos; Development; Synaptosome (Dam, K. (118) 129)

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NT4
BDNF; NT3; Embryonic retinal transplant (Atkinson, J. (112) 173)

N-type
R-type; P-type; Alpha1A; Alpha1B; Alpha1E; Semi-quantitative RT-PCR (Falk, T. (115) 161)

Nuclear envelope
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Nuclear ganglioside
Ganglioside; GM1 ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Cortical neuron; Superior cervical ganglion neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

Nucleus ambiguus
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Nucleus of the solitary tract
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Nucleus tractus solitarii
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Synaptogenesis; Brainstem vagal nuclei; Ventrolateral medulla; Nucleus ambiguus; Autonomic function (Rao, H. (112) 281)

Nucleus tractus solitarius
Nitric oxide synthase; Norepinephrine; Arterial blood pressure; Fetus; Newborn (Ma, S.-X. (118) 119)

Nutrition
Choline chloride; Hippocampus; Perinatal development; Spatial memory; Working memory; Reference memory; Proactive interference; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Nutritional rehabilitation
Developmental protein malnutrition; Noradrenaline release; Neuronal density; Histogenetic gradient; Occipital cortex; Rat (Soto-Moyano, R. (116) 51)

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Occipital cortex
Developmental protein malnutrition; Nutritional rehabilitation; Noradrenaline release; Neuronal density; Histogenetic gradient; Rat (Soto-Moyano, R. (116) 51)

Ocular development
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Offspring
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Olfaction
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Olfactory
CRBP I; CRABP I; Embryogenesis; Mouse; Retinoic acid (Gustafson, A.-L. (114) 121)

Olfactory ensheathing cell
Galectin-1; Olfactory system; Axon growth; Lectin (St John, J.A. (117) 171)

Olfactory epithelium
Apoptosis; Development; Mouse; In situ nick translation; Tdt-mediated dUTP nick end-labeling (Voyron, S. (115) 49)

Olfactory mucosa
Monodelphis domestica; Development; BrdU (Couper Leo, J.M. (114) 43)

Olfactory system
Y10b-immunocytochemistry; Protein synthesis; Development; Ribosomes; Sensory deprivation (Fiske, B.K. (113) 55)

Galectin-1; Olfactory ensheathing cell; Axon growth; Lectin (St John, J.A. (117) 171)

Oligodendrocyte
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Oligodendroglia
Immunopanning; Cell culture; Development; Myelin; Astroglia (Ingraham, C.A. (112) 79)

On-center
Activity-dependent; Off-center; Retinal ganglion cell; Development; Visual system (Cramer, K.S. (116) 79)

Onset cell
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Neurosteroid; Benzodiazepine; γ-Aminobutyric acid (Bailey, C.D.C. (113) 21)

Neurotensin receptor; Levocabastine; Glial cell; In situ hybridization (Lépée-Lorgeoux, I. (113) 115)

L-DOPA; MK-801; Locomotion; Neonatal rat; Gait (McEwen, M.L. (115) 33)

Hypothalamic–pituitary–adrenal axis; Corticotrophin-releasing hormone mRNA; Hormone; *c-fos* (Dent, G.W. (117) 21)

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Ontogeny of memory
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Opioid
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Juvenile; Maternal behavior; Arcuate nucleus (Mann, P.E. (116) 21)

Epilepsy; Development; Sex difference (Velíšková, J. (116) 119)

δ-Opioid receptor blockade
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Optic tectum
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Isthmus; Organizer; *Pax-2*; *Pax-5*; Chick embryo (Okafuji, T. (116) 41)

Axonal guidance; Retinotectal projection; Retinal ganglion cell; Growth cone (Ichijo, H. (117) 199)

Organ culture
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Organizer
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Retinal ganglion cell; Thy-1; Neurite (Simon, P.D. (117) 219)

Outward rectification
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Oxidative metabolism
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Pain sensitivity
Mouse; Postnatal manipulation; Development; Morphine (D'Amato, F.R. (117) 15)

Paired-pulse
Hippocampus; Modulation; Granule cell; Vigilance; Development (Bronzino, J.D. (114) 143)

Paired-pulse inhibition
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Palmitoyl protein thioesterase
Neuronal ceroid lipofuscinosis; Synaptogenesis; In situ hybridization; Immunohistochemistry; Neurodegeneration (Isosomppi, J. (118) 1)

Panning purification
Regrowth ability; RGC culture; Extracellular matrix protein; Cell ELISA; Chick Thy-1 antibody (Brocco, M.A. (118) 23)

Paraventricular nucleus of the hypothalamus
Astrocyte; Microglia; Nucleus of the solitary tract; Dorsal motor nucleus of the vagus (Rinaman, L. (114) 207)

Parkinson's disease
Glial cell line-derived neurotrophic factor; Weaver mutant mouse; Tyrosine hydroxlase immunocytochemistry (Broome, J.D. (116) 1)

Patch-clamp recording
K^+ channels; Inward rectifier; Development; RT-PCR; Immunocytochemistry (Ma, W. (114) 127)

Pax-2
Isthmus; Organizer; Optic tectum; *Pax-5*; Chick embryo (Okafuji, T. (116) 41)

Transgenic mouse; Gene regulation; Neural plate; Rhombomere; Transcription factor; Midbrain–hindbrain junction; *Sonic hedgehog* (Rowitch, D.H. (117) 99)

Pax-5
Isthmus; Organizer; Optic tectum; *Pax-2*; Chick embryo (Okafuji, T. (116) 41)

PC12 cell
Somatostatin; NGF; Differentiation; Ion channel (Rhie, D.-J. (112) 267)

PECAM
ICAM-2; CD68; Blood vessel; Spinal cord; Human fetal; Microglia; Colonisation (Rezaie, P. (115) 71)

Pedunculopontine tegmental nucleus
Immunocytochemistry; Acetylcholine; Nitric oxide; Transgenic mouse; Brainstem cholinergic pathway (Scheiner, C.A. (118) 217)

Pentylenetetrazol
Seizure; Status epilepticus; Neuronal damage; TUNEL staining; Development (Pineau, N. (112) 139)

Pericyte
Monocarboxylate transporter (MCT1); Brain; Endothelium; Astrocyte; Neuron (Leino, R.L. (113) 47)

Perinatal
Glutamate; Hypoxia–ischemia; Rat (Vannucci, R.C. (118) 147)

Perinatal development
Choline chloride; Hippocampus; Spatial memory; Working memory; Reference memory; Proactive interference; Nutrition; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Phosphodiesterase
Development; Ontogeny; Immunoblot; Beta adrenergic receptor (Zhang, K. (112) 11)

Photoreception
Danio rerio; Ontogeny; Circadian rhythm; Pineal; Retina (Kazimi, N. (117) 47)

Photoreceptor
Retina; Pineal gland; Development (Green, C.B. (117) 109)

Phrenic motoneuron
Substance P; Respiratory rhythm; Whole cell recording; In vitro; Newborn and fetal rat (Ptak, K. (114) 217)

Phytoestrogen
Calbindin-D_{28K}; Hypothalamus; Prenatal development; Sexual differentiation; Rat; Western analysis (Taylor, H. (114) 277)

Picrotoxin
Brain slice; Neocortex; Epileptic field potential; Dark-rearing (Atapour, N. (117) 153)

Piglet
Brainstem; Development; Respiration (Laferrière, A. (112) 1)

Pineal
Danio rerio; Ontogeny; Circadian rhythm; Photoreception; Retina (Kazimi, N. (117) 47)

Pineal gland
Retina; Development; Photoreceptor (Green, C.B. (117) 109)

Pituitary intermediate lobe
Tyrosine hydroxylase; Dopamine; Hypothalamus; Membrane (Niquet, J. (118) 39)

Plasticity
Sprouting; Substantia gelatinosa (Park, J.-S. (113) 29)

Deprivation; Vibrissae; Zinc-containing neuron (Quaye, V.L. (114) 283)

Degeneration; Marsupial; Neurotrophins; Red nucleus; Regeneration (Wang, X.M. (118) 177)

^{31}P MRS
Brain; Ischemia; Lactic acidosis; Development; Microdialysis (Corbett, R. (113) 37)

Pontomesencephalon
Function; Rapid eye movement sleep; Activity-dependent; Development; Visual cortex (Shaffery, J.P. (114) 109)

Postnatal development
Medial septum; Lateral septum; Diagonal band; Acetylcholine release presynaptic muscarinic autoreceptor; Choline acetyltransferase (Disko, U. (114) 1)

Brainstem; IGF-I; Morphometry; Transgenic mouse (Dentremont, K.D. (114) 135)

Connexin43; Rat brain; Regional distribution (Åberg, N.D. (115) 97)

Sensory cortex; Onset cell; Intrinsic property; Thalamocortical; Outward rectification (Metherate, R. (115) 131)

Postnatal manipulation
Mouse; Development; Pain sensitivity; Morphine (D'Amato, F.R. (117) 15)

Postnatal mRNA expression
Metabotropic glutamate receptor; Spinal cord; Rat; In situ hybridisation (Berthele, A. (112) 39)

Postnatal stimulation
Nitric oxide; Development; Dentate gyrus; Ammon's horn; Transmitter location (Veenman, C.L. (114) 229)

Posture
Locomotion; EMG; Longissimus muscle; Rat; Development (Gramsbergen, A. (112) 217)

Development; Vestibular system; Gastrocnemius-soleus muscle; Locomotion; Descending pathways (Brocard, F. (117) 81)

Potassium channel expression
Primary culture; Neuronal differentiation; Synapse (Guinamard, R. (117) 31)

Potassium channels
Auxiliary subunits; Kvβ1; Kvβ2; Mouse; Ion channels (Downen, M. (117) 71)

POU transcription factor
Brain-2; Developing olfactory bulb; Mitral cell; Tufted cell; Mitral/tufted cell; Granule cell (Hagino-Yamagishi, K. (113) 133)

Pregnant rat
Chronic nicotine; Vasopressin; Offspring (Zbuzek, V.K. (112) 229)

Prenatal
Brain; Drug abuse; Ectopic; Migration (Baraban, S.C. (117) 213)

Prenatal amphetamine
Microdialysis; Locus coeruleus; Psychosis; Electrophysiology; Noradrenergic system (Nasif, F.J. (112) 181)

Prenatal development
Calbindin-D_{28K}; Hypothalamus; Sexual differentiation; Rat; Western analysis; Phytoestrogen (Taylor, H. (114) 277)

Presynapse
Protein 4.1; Membrane skeleton; Cerebellum; Cellular and subcellular localization (Ohara, R. (117) 127)

Primary culture
Neuronal differentiation; Synapse; Potassium channel expression (Guinamard, R. (117) 31)

Primary sensory afferents
Calcitonin gene-related peptide; Spinal pattern generators; Activity dependent modification of synapses (Gibson, C.L. (115) 93)

Primed-burst stimulation
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Proactive interference
Choline chloride; Hippocampus; Perinatal development; Spatial memory; Working memory; Reference memory; Nutrition; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Progenitor
Central nervous system; Macrophage; Development (Alliot, F. (117) 145)

Progesterone
Neurosteroid; Brain development; Testosterone; Non-genomic (Kellogg, C.K. (115) 17)

Proliferation
$GABA_A$ receptors; Voltage-gated calcium channels; Mitogen-activated protein kinase kinase; Cerebellar granule cells; Depolarization (Fiszman, M.L. (115) 1)

Islet-1; Differentiation marker; Neural crest; Dorsal root ganglia; Sympathetic ganglion (Avivi, C. (115) 89)

Protein 4.1
Membrane skeleton; Cerebellum; Cellular and subcellular localization; Presynapse (Ohara, R. (117) 127)

Protein kinase C
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Protein synthesis
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Psychosis
Prenatal amphetamine; Microdialysis; Locus coeruleus; Electrophysiology; Noradrenergic system (Nasif, F.J. (112) 181)

P-type
R-type; N-type; Alpha1A; Alpha1B; Alpha1E; Semi-quantitative RT-PCR (Falk, T. (115) 161)

Purkinje neuron
Sodium pump; Membrane potential; Development; Ouabain (Molnar, L.R. (112) 287)

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Quantitative histochemistry
Oxidative metabolism; White matter (Nair, H.P. (118) 197)

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Radial-arm maze
Choline chloride; Hippocampus; Perinatal development; Spatial memory; Working memory; Reference memory; Proactive interference; Nutrition; Rat (Meck, W.H. (118) 51)

Radial glial fiber
Bromodeoxyuridine; Disorder of neuronal migration; Glial fibrillary acidic protein; Midkine; Neuroblast (Sun, X.-Z. (114) 99)

Raphe neuron
Ethanol; Serotonin; Ipsapirone (Tajuddin, N.F. (117) 91)

Raphestriatal
Substance P; $5\text{-}HT_{2A/C}$ receptor; Basal ganglia; D_1/D_2 receptor; Serotonin; Dopamine; Nigrostriatal (Basura, G.J. (112) 155)

Rapid eye movement sleep
Function; Activity-dependent; Development; Visual cortex; Pontomesencephalon (Shaffery, J.P. (114) 109)

Rapsyn
Neuromuscular synapse; Agrin; MuSK; Acetylcholine receptor (Gautam, M. (114) 171)

Rat
Metabotropic glutamate receptor; Spinal cord; Postnatal mRNA expression; In situ hybridisation (Berthele, A. (112) 39)

Locomotion; Posture; EMG; Longissimus muscle; Development (Gramsbergen, A. (112) 217)

Angiotensin II; AT1 receptor; Hypertension (Porter, J.P. (112) 293)

Glucocorticoid receptor messenger RNA; Stress; Maternal deprivation; Hippocampus; Hypothalamic paraventricular nucleus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Calbindin-D_{28K}; Hypothalamus; Prenatal development; Sexual differentiation; Western analysis; Phytoestrogen (Taylor, H. (114) 277)

Developmental protein malnutrition; Nutritional rehabilitation; Noradrenaline release; Neuronal density; Histogenetic gradient; Occipital cortex (Soto-Moyano, R. (116) 51)

Damage; Development; Epilepsy; Flurothyl; Injury; Status epilepticus (Sperber, E.F. (116) 59)

Development; Retina; Immunocytochemistry; Tachykinin receptor; Substance P; Amacrine cell; Bipolar cell (Oyamada, H. (117) 59)

Development; Hippocampus; $GABA_A$-receptor; Synaptic inhibition (Psarropoulou, C. (117) 117)

Choline chloride; Hippocampus; Perinatal development; Spatial memory; Working memory; Reference memory; Proactive interference; Nutrition; Radial-arm maze (Meck, W.H. (118) 51)

Glutamate; Hypoxia–ischemia; Perinatal (Vannucci, R.C. (118) 147)

Rat brain
Connexin43; Postnatal development; Regional distribution (Åberg, N.D. (115) 97)

Nicotinic acetylcholine receptor; Aging; RT-PCR (Charpantier, E. (118) 153)

Receptor protein tyrosine kinase RYK
Central nervous system; Development; In situ hybridization (Kamitori, K. (114) 149)

Red nucleus
Degeneration; Marsupial; Neurotrophins; Plasticity; Regeneration (Wang, X.M. (118) 177)

Reference memory
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Regeneration
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Retina; Development; Choline acetyltransferase; Acetylcholinesterase (Cheon, E.W. (116) 97)

Apoptosis; Retina; Newt (Kaneko, Y. (117) 225)

Degeneration; Marsupial; Neurotrophins; Plasticity; Red nucleus (Wang, X.M. (118) 177)

Regional distribution
Connexin43; Rat brain; Postnatal development (Åberg, N.D. (115) 97)

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Relationships between cerebral metabolism and morphology
Developmental brain lesion effect; Cerebral glucose metabolism; Cerebral oxidative metabolism; Neocortex (Villablanca, J.R. (117) 1)

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Neonatal; Immediate early gene; Central chemoreceptor; Nucleus tractus solitarii; Hypercapnia (Wickström, H.R. (112) 255)

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Respiratory rhythm
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Retina
Superior colliculus; Topographic specificity; Laminar specificity; Corticocollicular growth; DiI; Development (Khachab, M.Y. (114) 179)

Development; Regeneration; Choline acetyltransferase; Acetylcholinesterase (Cheon, E.W. (116) 97)

Danio rerio; Ontogeny; Circadian rhythm; Photoreception; Pineal (Kazimi, N. (117) 47)

Development; Immunocytochemistry; Tachykinin receptor; Substance P; Amacrine cell; Bipolar cell; Rat (Oyamada, H. (117) 59)

Pineal gland; Development; Photoreceptor (Green, C.B. (117) 109)

Apoptosis; Regeneration; Newt (Kaneko, Y. (117) 225)

Retinoic acid; Apoptosis; Retinal pigment epithelium; Organ culture (Söderpalm, A.K. (118) 169)

Retina cell type
Histone; Terminal differentiation (Miguel-Hidalgo, J.J. (117) 39)

Retinal development
Stellation; Astrocyte migration; Hypoxia; Hyperoxia (Zhang, Y. (118) 135)

Retinal ganglion cell
Calcium; Neurite; Outgrowth; Calcium (Heng, J.E. (113) 67)

Activity-dependent; On-center; Off-center; Development; Visual system (Cramer, K.S. (116) 79)

Axonal guidance; Retinotectal projection; Growth cone; Optic tectum (Ichijo, H. (117) 199)

Thy-1; Neurite; Outgrowth (Simon, P.D. (117) 219)

Retinal ganglion cells
Apoptosis; Bcl-2; Bax; Cerebral cortex; Hippocampus; Ischemia (Rickman, D.W. (115) 41)

Retinal pigment epithelium
Retinoic acid; Apoptosis; Organ culture; Retina (Söderpalm, A.K. (118) 169)

Retinoic acid
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Apoptosis; Retinal pigment epithelium; Organ culture; Retina (Söderpalm, A.K. (118) 169)

Retinotectal projection
Axonal guidance; Retinal ganglion cell; Growth cone; Optic tectum (Ichijo, H. (117) 199)

Retinotectal system
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Retrograde signal
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Rett syndrome
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RGC culture
Regrowth ability; Extracellular matrix protein; Cell ELISA; Panning purification; Chick Thy-1 antibody (Brocco, M.A. (118) 23)

Rhombomere
Transgenic mouse; Gene regulation; Neural plate; *Pax-2*; Transcription factor; Midbrain–hindbrain junction; *Sonic hedgehog* (Rowitch, D.H. (117) 99)

Ribosomes
Olfactory system; Y10b-immunocytochemistry; Protein synthesis; Development; Sensory deprivation (Fiske, B.K. (113) 55)

mRNA expression
Alternative splicing; Cerebellum; Estrogen receptor; Granule cell; RT-PCR (Belcher, S.M. (115) 57)

RT-PCR
K^+ channels; Inward rectifier; Development; Immunocytochemistry; Patch-clamp recording (Ma, W. (114) 127)

Alternative splicing; Cerebellum; Estrogen receptor; Granule cell; mRNA expression (Belcher, S.M. (115) 57)

Nicotinic acetylcholine receptor; Aging; Rat brain (Charpantier, E. (118) 153)

R-type
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Satiety
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Hypoxia–ischemia; Kainic acid; Flurothyl (Towfighi, J. (113) 83)

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Semi-quantitative RT-PCR
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Sensory cortex
Onset cell; Intrinsic property; Postnatal development; Thalamocortical; Outward rectification (Metherate, R. (115) 131)

Sensory deprivation
Olfactory system; Y10b-immunocytochemistry; Protein synthesis; Development; Ribosomes (Fiske, B.K. (113) 55)

Septal culture
Septum; Embryonic; Calcium; Calcium channel (Thinschmidt, J.S. (118) 13)

Septo-hippocampal
Apoptosis; Cholinergic neuron; Development; Neurotrophin receptor; Transgenic mouse (Ward, N.L. (118) 79)

Septum
Apoptosis; Choline; Hippocampus; Neurogenesis; TOAD-64 (Albright, C.D. (113) 13)

Apoptosis; Choline; Neurogenesis; TOAD-64 (Albright, C.D. (115) 123)

Embryonic; Calcium; Calcium channel; Septal culture (Thinschmidt, J.S. (118) 13)

Serotonin
Substance P; 5-$HT_{2A/C}$ receptor; Basal ganglia; D_1/D_2 receptor; Dopamine; Raphestriatal; Nigrostriatal (Basura, G.J. (112) 155)

Ethanol; Raphe neuron; Ipsapirone (Tajuddin, N.F. (117) 91)

Serotonin 2C receptor
6-Hydroxydopamine; 5,7-Dihydroxytryptamine; In situ hybridization; Basal ganglia; Substantia nigra; Dorsal raphe (Basura, G.J. (116) 111)

Sex difference
Acetylcholine; Basal forebrain; Brain development; Rett syndrome; Sympathetic ingrowth (Sherren, N. (114) 49)

Epilepsy; Development; Opioid (Velíšková, J. (116) 119)

Sexual differentiation
Calbindin-D_{28K}; Hypothalamus; Prenatal development; Rat; Western analysis; Phytoestrogen (Taylor, H. (114) 277)

Sexual dimorphism
Hypothalamus; Genetic; Estrogen receptor; Galanin (Brown, A.E. (115) 171)

Sheep
NMDA; AMPA; Autoradiography; Development (Anderson, K.J. (118) 69)

SH2/SH3 domain
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Sodium pump
Purkinje neuron; Membrane potential; Development; Ouabain (Molnar, L.R. (112) 287)

Somatosensory
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Somatosensory system
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Somatostatin
NGF; PC12 cell; Differentiation; Ion channel (Rhie, D.-J. (112) 267)

Sonic hedgehog
Transgenic mouse; Gene regulation; Neural plate; Rhombomere; *Pax-2*; Transcription factor; Midbrain–hindbrain junction (Rowitch, D.H. (117) 99)

Spatial memory
Choline chloride; Hippocampus; Perinatal development; Working memory; Reference memory; Proactive interference; Nutrition; Radial-arm maze; Rat (Meck, W.H. (118) 51)

Choline; Long-term potentiation; Hippocampus (Jones III, J.P. (118) 159)

Spinal cord
Metabotropic glutamate receptor; Rat; Postnatal mRNA expression; In situ hybridisation (Berthele, A. (112) 39)

ICAM-2; PECAM; CD68; Blood vessel; Human fetal; Microglia; Colonisation (Rezaie, P. (115) 71)

Cytoskeleton; Motoneuron; MAP; DRG; Development (Houweling, D.A. (116) 87)

Spinal pattern generators
Calcitonin gene-related peptide; Primary sensory afferents; Activity dependent modification of synapses (Gibson, C.L. (115) 93)

Spinobulbar
Marsupial; Regeneration; Spinocerebellar; Spinothalamic; Fasciculus gracilis (Terman, J.R. (112) 65)

Spinocerebellar
Marsupial; Regeneration; Spinobulbar; Spinothalamic; Fasciculus gracilis (Terman, J.R. (112) 65)

Spinothalamic
Marsupial; Regeneration; Spinocerebellar; Spinobulbar; Fasciculus gracilis (Terman, J.R. (112) 65)

Sprouting
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Stable transfectant
Drebrin; Antisense; Neurite outgrowth; Suppression (Toda, M. (114) 193)

Status epilepticus
Seizure; Pentylenetetrazol; Neuronal damage; TUNEL staining; Development (Pineau, N. (112) 139)

Kainic acid; NBQX; Development (Mikati, M.A. (113) 139)

Damage; Development; Epilepsy; Flurothyl; Injury; Rat (Sperber, E.F. (116) 59)

Stellation
Astrocyte migration; Retinal development; Hypoxia; Hyperoxia (Zhang, Y. (118) 135)

Stereology
Adult rat; Ethanol; Microencephaly; Neuronal loss; Norepinephrine (Chen, W.-J.A. (118) 33)

Stress
Glucocorticoid receptor messenger RNA; Rat; Maternal deprivation; Hippocampus; Hypothalamic paraventricular nucleus; Amygdala central nucleus (Avishai-Eliner, S. (114) 265)

Stroke
Neonatal; Hypoxia–ischemia; Brain damage; Hypothermia; Hyperthermia; Immature rat (Yager, J.Y. (117) 139)

Subplate
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Substance P
5-$HT_{2A/C}$ receptor; Basal ganglia; D_1/D_2 receptor; Serotonin; Dopamine; Raphestriatal; Nigrostriatal (Basura, G.J. (112) 155)

Respiratory rhythm; Phrenic motoneuron; Whole cell recording; In vitro; Newborn and fetal rat (Ptak, K. (114) 217)

Development; Retina; Immunocytochemistry; Tachykinin receptor; Amacrine cell; Bipolar cell; Rat (Oyamada, H. (117) 59)

Substantia gelatinosa
Plasticity; Sprouting (Park, J.-S. (113) 29)

Substantia nigra
6-Hydroxydopamine; 5,7-Dihydroxytryptamine; In situ hybridization; Serotonin 2C receptor; Basal ganglia; Dorsal raphe (Basura, G.J. (116) 111)

Subunit
$GABA_A$ receptor; Thalamocortical projection; Barrel; Cortical development; MK-801; BDNF; Elvax polymer (Penschuck, S. (112) 117)

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Superior cervical ganglion neuron
Ganglioside; GM1 ganglioside; Nuclear ganglioside; Nuclear envelope; GM1 and neuritogenesis; Cerebellar granule cell; Cortical neuron; NG108-15 neuroblastoma cell (Kozireski-Chuback, D. (115) 201)

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Corticocollicular neuron; Subplate; Cortical plate; DiI; Neuronal development (Khachab, M.Y. (112) 145)

Topographic specificity; Laminar specificity; Retina; Corticocollicular growth; DiI; Development (Khachab, M.Y. (114) 179)

Suppression
Drebrin; Antisense; Neurite outgrowth; Stable transfectant (Toda, M. (114) 193)

Sympathetic ganglion
Islet-1; Differentiation marker; Proliferation; Neural crest; Dorsal root ganglia (Avivi, C. (115) 89)

Sympathetic ingrowth
Acetylcholine; Basal forebrain; Brain development; Rett syndrome; Sex difference (Sherren, N. (114) 49)

Sympathoadrenal
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Synapse
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Primary culture; Neuronal differentiation; Potassium channel expression (Guinamard, R. (117) 31)

Synaptic inhibition
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Synaptic plasticity
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Hippocampal formation; Dentate granule cell; In vitro extracellular recording; Functional compensation (Haring, J.H. (114) 269)

Feedback connection; Secondary visual area (Tropea, D. (118) 61)

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Palmitoyl protein thioesterase; Neuronal ceroid lipofuscinosis; In situ hybridization; Immunohistochemistry; Neurodegeneration (Isosomppi, J. (118) 1)

Synaptosome
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Tachykinin receptor
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T-box gene
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Tdt-mediated dUTP nick end-labeling
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^{99m}Technetium pertechnetate
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Tectum
Vision; Superior colliculus; Development; Direction selectivity (Fortin, S. (112) 55)

Terminal differentiation
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Thalamocortical
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Thalamocortical projection
$GABA_A$ receptor; Subunit; Barrel; Cortical development; MK-801; BDNF; Elvax polymer (Penschuck, S. (112) 117)

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[^{3}H]Thymidine autoradiography
Cell proliferation; Cortical plate; Cerebral cortex; Neurogenesis; Ventricular zone (Miller, M.W. (115) 111)

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γ-Aminobutyric acid; Developing brain; 17β-Estradiol; Glutamate; Methyltestosterone (Wang, L.-H. (114) 273)

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Diffuse axonal injury; Immediate early gene; Retrograde labeling (Kreutz, M.R. (69) 232)

AP-1
Valproate; Transcription factor; *jun*; *fos*; Mania; Anticonvulsant (Chen, G. (64) 52)

Okadaic acid; Alzheimer's disease; c-Jun; CREB; PC12 cell (Woodgate, A. (66) 211)

Neurotrophin-3; Gene expression; Phorbol ester; Vascular smooth muscle cell; Reverse transcription-PCR (Nemoto, K. (68) 186)

AP-2β
D_{1A} dopamine receptor; Gene regulation; Silencer; Repressor; Differentiation (Takeuchi, S. (74) 208)

AP1 binding
Adenosine; Basal forebrain; In vivo microdialysis; c-Fos; Sleep deprivation (Basheer, R. (73) 1)

Apolipoprotein D
Alzheimer's disease; Apolipoprotein E; Astrocyte; Central nervous system; Hippocampus; Lipocalin (Terrisse, L. (70) 26)

Apolipoprotein E
β-Amyloid; Alzheimer's disease (Beffert, U. (68) 181)

Alzheimer's disease; Apolipoprotein D; Astrocyte; Central nervous system; Hippocampus; Lipocalin (Terrisse, L. (70) 26)

Apoptosis
Hypoxia; Cultured neuron; Developing rat brain; Transcription factor; c-Jun N-terminal kinase (Chihab, R. (63) 105)

Calbindin-D_{28k}; Calcium; Beta amyloid (Wernyj, R.P. (64) 69)

Neuronal death; Cerebellar granule cell; Caspase; Cytochrome *c*; 6-Hydroxydopamine; Parkinson's disease (Dodel, R.C. (64) 141)

SAPK/JNK; SEK1; Immunohistochemistry; In situ hybridization; MAP kinase (Lee, J.-K. (66) 133)

Retinal ganglion cell; Caspase inhibitor; Axotomy; Microglia (Chaudhary, P. (67) 36)

Cell death; Epilepsy; Caspase; Nitric oxide; c-Jun (Becker, A.J. (67) 172)

Necrosis; Parkinson's disease; Dopamine transport (Woodgate, A. (69) 84)

PAC1-R; p53; Zac; Ischemia; Differentiation (Ciani, E. (69) 290)

Seizure; Strain; TUNEL; Excitotoxicity (Faherty, C.J. (70) 159)

S100β; Bcl-2; Neurons (Wang, S. (70) 167)

Ionizing radiation; Dentate gyrus; Cell proliferation; TUNEL; Ki-67; NeuN (Peißner, W. (71) 61)

p53; Cyclin D1; Cell cycle; Cell death; Traumatic brain injury (Napieralski, J.A. (71) 78)

Glutamate; Neuron; Bcl-2; Caspase; Basic fibroblast growth factor (Liu, X. (71) 210)

Cultured brain neurons; Hypoxia/reoxygenation; Caspase-3 induction; PARP cleavage; Caspase inhibitors; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

Hypoxia; Neuron; Cell death; Gene (Banasiak, K.J. (72) 214)

APP
Beta-peptide; Gel shift assay; Gene regulation; Nuclear factor; Transcription (Lahiri, D.K. (71) 32)

APP gene expression
TGF-β_1; Post-transcription; *Cis–trans* interaction (Amara, F.M. (71) 42)

Arachidonic acid
AMPA receptor; Potentiation; CaMKII; Voltage-clamp; Calcium assay (Nishizaki, T. (67) 184)

Nicotinic ACh receptor; Protein kinase C; Synaptic transmission; Long-term potentiation; Hippocampus (Nishizaki, T. (69) 263)

Arcuate nucleus
Proopiomelanocortin; Enkephalin; β-Endorphin; μ-Opioid receptor; Reproduction (Bouret, S. (70) 155)

Arginase
Brain; Arginine; Nitric oxide; System y^+; Argininosuccinate; In situ hybridization (Braissant, O. (70) 231)

Arginine
Brain; Nitric oxide; System y^+; Arginase; Argininosuccinate; In situ hybridization (Braissant, O. (70) 231)

Argininosuccinate
Brain; Arginine; Nitric oxide; System y^+; Arginase; In situ hybridization (Braissant, O. (70) 231)

ARIA
Transcription; MAP kinase; Synapse; Acetylcholine receptor (Si, J. (67) 18)

Aromatase
Estrogen; Striatum; Development; RT-PCR; Immunocytochemsitry (Küppers, E. (63) 184)

Promoter region; Transcriptional regulation; *Cis*-acting element (Honda, S.-i. (66) 122)

Ascorbic acid
Stimulus-transcription coupling; Receptor; Cycloheximide; Lactacystin; Catecholamine (Schmidt, J. (73) 50)

Astrocyte
Somatostatin receptor; Glioma; Glial tumor; SST2 (Held-Feindt, J. (64) 101)

Interleukin 18; IL-18, lipopolysaccharide; Interleukin-1β converting enzyme; Microglia; BV2, brain (Conti, B. (67) 46)

Brain capillary endothelial cell; Nitric oxide; cGMP; cGMP-dependent protein kinase; Vasodilator-stimulated phosphoprotein (Sporbert, A. (67) 258)

Oligodendrocyte; Progenitor cell; Glutamate homeostasis (Domercq, M. (67) 296)

Alzheimer's disease; Apolipoprotein D; Apolipoprotein E; Central nervous system; Hippocampus; Lipocalin (Terrisse, L. (70) 26)

Interferon-gamma; *Myc*; Oncogene (Rubio, N. (71) 104)

Basic fibroblast growth factor; Fibroblast growth factor receptor; Serum-free; Glucose-free; Glutamate (Liu, X. (71) 171)

Scrapie; Prion; Cytokine; NF-κB; Reactive oxygen species (Kim, J.-I. (73) 17)

Trisomy-16 mouse; Down's syndrome; Embryonic primary culture; Activator protein-1; C-jun; Hydrogen peroxide (Scortegagna, M. (73) 144)

Astroglia
Cerebral ischemia; Neuronal death; GFAP and GLUT3 mRNA (Liu, D. (68) 29)

Ataxin-7
SCA7; Neurodegeneration; Nuclear inclusion; Polyglutamine; Ubiquitin (Mauger, C. (74) 35)

ATP
P2X receptor; $P2X_4$; Ion channel; Alternative splicing; Oocyte (Townsend-Nicholson, A. (64) 246)

ATP-sensitive potassium channel
Neuron; Glia; In situ hybridization; Immunohistochemistry; Electron microscopy (Zhou, M. (74) 15)

AT_1 receptor
Antisense oligonucleotide; Ribonuclease H mechanism; Translation arrest (Ho, S.P. (65) 23)

Autoactivation
NeuroD (BETA2/BHF1); Neuronal development; Promoter; Basic helix-loop-helix (Miyachi, T. (69) 223)

Autoinnervation
Fusion protein; Immunocytochemistry; Autoradiography; 8-OH-DPAT; Limbic system; Hippocampus (Zhou, F.C. (69) 186)

Autoradiography
Heat shock protein; GADD45; MAP2; In situ hybridization; Image-processing (Schmidt-Kastner, R. (63) 79)

Opioid receptor; Enkephalin; Knockout; Amygdala; Hypothalamus (Brady, L.S. (68) 193)

Fusion protein; Immunocytochemistry; 8-OH-DPAT; Autoinnervation; Limbic system; Hippocampus (Zhou, F.C. (69) 186)

Avoidance training
Fos; Jun; CREB; Gel shift; Hippocampus; Neocortex; Behavior (Lukasiuk, K. (67) 64)

Axonal transport
Hsp25; Hypoxia; Heat shock; Motor neuron; Brainstem (Murashov, A.K. (63) 14)

Axotomy
Retinal ganglion cell; Apoptosis; Caspase inhibitor; Microglia (Chaudhary, P. (67) 36)

Facial nucleus; In situ hybridization; Motoneuron; Oxytocin receptor; Vasopressin receptor (Chritin, M. (70) 210)

GFRα; Hypoglossal; Cell death; Regeneration (Tsujino, H. (70) 298)

B

trkB
Brain-derived neurotrophic factor; Postsynaptic density; NMDA receptor; Protein tyrosine phosphatase (Lin, S.-y. (70) 18)

Baclofen
GABA; $GABA_B$ receptor; Cerebellum; Receptor purification; Inhibitory amino acid receptor; CGP 62349 (Keir, M.J. (71) 279)

Barrel cortex
In situ hybridization; Neuronal plasticity; Vibrissae; GABA; AMPA (Gierdalski, M. (71) 111)

Barrington's nucleus
Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; c-*fos*; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Basal forebrain
Adenosine; In vivo microdialysis; c-Fos; AP1 binding; Sleep deprivation (Basheer, R. (73) 1)

Basal ganglia
Parkinson's disease; Nitric oxide synthase; In situ hybridization; mRNA; Human (Eve, D.J. (63) 62)

Dopamine; Substance P; α-Methyl-*p*-tyrosine; Ritanserin (Gresch, P.J. (67) 190)

Parkinson's disease; Serotonin receptor; Dopamine receptor; Substance P; In situ hybridization (Gresch, P.J. (70) 125)

Basic fibroblast growth factor
6-Hydroxydopamine; Immunohistochemistry; Neural transplantation; Transforming growth factor beta 2; Ventral mesencephalon (Sommer, C. (69) 53)

Fibroblast growth factor receptor; Astrocyte; Serum-free; Glucose-free; Glutamate (Liu, X. (71) 171)

Glutamate; Neuron; Apoptosis; Bcl-2; Caspase (Liu, X. (71) 210)

Basic helix-loop-helix
NeuroD (BETA2/BHF1); Neuronal development; Promoter; Autoactivation (Miyachi, T. (69) 223)

Bcl-2
S100β; Neurons; Apoptosis (Wang, S. (70) 167)

Glutamate; Neuron; Apoptosis; Caspase; Basic fibroblast growth factor (Liu, X. (71) 210)

Bdm1
Brain development; cDNA cloning; mRNA expression; In situ hybridization (Yamauchi, Y. (68) 149)

BDNF
Cerebellar granule cells; Secretogranin-II; Calcium; mRNA expression (Fujita, Y. (63) 316)

Neuropathic pain; NGF; NT-3; RPA; Spinal nerve ligation (Shen, H. (64) 186)

GDNF; Mesencephalic; Transmitter release; Synaptic protein; Fasciculation (Feng, L. (66) 62)

Trk receptor; Tyrosine kinase; Taste; NGF; NT-3; NT-4; In situ RT-PCR (Cho, T.T. (68) 1)

NGF; NT-3; *trk*; Striatum; Excitatory amino acid (Canals, J.M. (69) 242)

Behavior
Avoidance training; Fos; Jun; CREB; Gel shift; Hippocampus; Neocortex (Lukasiuk, K. (67) 64)

Aging; In situ hybridization; Immunohistochemistry; Neurotrophin receptor (Johnson, H. (69) 21)

Prion, PrP^C; $Prnp^{0/0}$ mice; Memory (Roesler, R. (71) 349)

Behavioral dependence
Ethanol; Rats; Brain; Glycolysis; Glucose transporter (Eravci, M. (65) 103)

Benzodiazepine
Gene expression; Promoter; Silencer; NRSE; Gamma-aminobutyric acid (Mu, W. (67) 137)

Bergmann glia
In situ hybridization; *Dri 42*; Phosphatidic acid phosphatase; Ventricular germinal zone (Suzuki, R. (66) 195)

Beta amyloid
Calbindin-D_{28k}; Apoptosis; Calcium (Wernyj, R.P. (64) 69)

Beta-peptide
APP; Gel shift assay; Gene regulation; Nuclear factor; Transcription (Lahiri, D.K. (71) 32)

junB, fosB
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a*,*d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Bipolar disorder
Lithium; Valproate; CREB; Phosphorylation; c-Fos; c-Jun (Chen, B. (70) 45)

Differential display PCR; Lithium; Nitrogen permease regulator; Gene expression (Wang, J.-F. (70) 66)

Lithium; Valproate; Carbamazepine; Phosphoinositide (Pacheco, M.A. (72) 138)

Bisulfite
Polymerase chain reaction; Reporter gene; Transfection; TATA box; SH-SY5Y (Andria, M.L. (70) 54)

Blood–brain barrier
Ischemia; Cerebral blood flow; Mouse; Middle cerebral artery occlusion; Reperfusion (Mao, Y. (63) 366)

Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Ischemia; Middle cerebral artery occlusion; Reperfusion; Temporary; Tumor necrosis factor-alpha (Yang, G.-Y. (69) 135)

Adenovirus; Ischemia; Mouse; Intracellular adhesion molecule-1; Interleukin-1; Temporary (Yang, G.-Y. (72) 129)

Blood–retinal barrier
Blood–brain barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Blot overlay
Brain spectrin; Cytoskeleton; GAP-43; Microtubule; Rat; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

BMAL1
Circadian rhythm; Suprachiasmatic nucleus; *Clock*; *per*; Light (Abe, H. (66) 104)

Bombesin
G protein-coupled receptor; CNS; In situ hybridization; Neuropeptide; Endothelin; Orphan receptor (Leng, N. (69) 73)

Bovine
Glutamate receptor; Oligodendrocyte; Deaminase; Rat (De Zulueta, M.P. (73) 104)

Cloning; μ-Opioid receptor; Gene expression (Onoprishvili, I. (73) 129)

Bradykinin
PC12; C100; Calcium (Pascale, A. (72) 205)

Brain
Ischemia; Hypothermia; Neurotrophin; Gene expression; Protection (Boris-Möller, F. (63) 163)

Novel gene; C1q-like; Motor function; In situ hybridization (Bérubé, N.G. (63) 233)

Estrogen; Estrogen receptor; CpG island; *N*-methyl-D-aspartate receptor; Estrogen responsive element (Watanabe, T. (63) 375)

Synaptojanin; Synapse; Endocytosis; Rat; In situ hybridization histochemistry (Kudo, M. (64) 179)

NPY; Olfactory; Neuron; Copper; Deficiency (Rutkoski, N.J. (65) 80)

Ethanol; Rats; Behavioral dependence; Glycolysis; Glucose transporter (Eravci, M. (65) 103)

Receptor for advanced glycated end products (RAGE); Promoter; Transcription factor binding site; DNA methylation (Tohgi, H. (65) 124)

Glaucoma; Myocilin; In situ hybridization (Swiderski, R.E. (68) 64)

Ischemia; Neurological; Growth hormone; Stroke; Treatment (Scheepens, A. (68) 88)

Rho GTPase; In situ hybridization; Development (Olenik, C. (70) 9)

Protein 4.1; Membrane skeleton; Comprehensive cDNA analysis (Yamakawa, H. (70) 197)

Arginine; Nitric oxide; System y^+; Arginase; Argininosuccinate; In situ hybridization (Braissant, O. (70) 231)

Amyloid precursor protein gene; Promoter; DNA methylcytosine (Tohgi, H. (70) 288)

Chemokine; Inflammation; Ischemia (Wang, X. (71) 304)

Megalencephaly; Megencephaly mutant mouse; *mceph / mceph*; Insulin-like growth factor binding protein; mRNA in situ hybridization (Petersson, S. (72) 80)

Ecto-ATPase; Ecto-ATPDase; Cochlea; Purinergic transmission; Alternative splicing (Vlajkovic, S.M. (73) 85)

Sex development; Mouse; mRNA differential display; Signal peptide differential display; Representational difference analysis (Eriksson, A. (74) 91)

Very-long-chain fatty acids; Peroxisomes; β-Oxidation; Development; Myelination (Knoll, A. (74) 217)

Brain area
Preprotachykinin-A mRNA; Young/old rat; Age (Pompei, P. (64) 132)

Brain capillary endothelial cell
Astrocyte; Nitric oxide; cGMP; cGMP-dependent protein kinase; Vasodilator-stimulated phosphoprotein (Sporbert, A. (67) 258)

Brain cortex
Cations transport; Ca^{2+}/H^+ antiport; Synaptic vesicle (Gonçalves, P.P. (67) 283)

Ca^{2+}/H^+ antiport; Synaptic vesicle (Gonçalves, P.P. (71) 178)

Brain-derived neurotrophic factor
Nerve growth factor; Neurotrophin-3; Acetylcholine; trkA; Septum; Alzheimer's disease; $p75^{NTR}$ (French, S.J. (67) 124)

Postsynaptic density; NMDA receptor; Protein tyrosine phosphatase; trkB (Lin, S.-y. (70) 18)

Diurnal; Promoter; Exon; Hippocampus; Plasticity (Berchtold, N.C. (71) 11)

Substantia nigra; Kainic acid; Exon regulation; In situ hybridization; RT-PCR (Aliaga, E. (71) 341)

Fibroblast growth factor-2; Nicotinic acetylcholine receptor agonist; (±)-Epibatidine; Glial cell line-derived neurotrophic factor; Fibroblast growth factor receptor-1 (Belluardo, N. (74) 98)

Brain development
PACAP mRNA; In situ hybridisation; Neurotrophic factor (Skoglösa, Y. (65) 1)

Isopentenyl diphosphate isomerase; Hypoglossal nerve regeneration; Rat cerebral cortex; Differential display screening; Myelination (Morihara, T. (67) 231)

Bdm1; cDNA cloning; mRNA expression; In situ hybridization (Yamauchi, Y. (68) 149)

Brain expression
Stress-activated protein kinase/c-Jun N-terminal kinase; Immunohistochemistry; Subcellular localization; High SAPK activity (Lee, J.-K. (70) 116)

Brain macrophages
Single-cell RT-PCR; Alternative splicing; Interleukin-15 (Prinz, M. (63) 155)

Brain microvessel
Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Brain region
Microglia; Cell culture; Differential mRNA expression; Inflammation; CD4; TNF-α; Fcγ receptor II; IL-3 receptor β (Ren, L.-q. (65) 198)

Brain-specific
$GABA_B$ receptor; cDNA clone; Signal sequence (Makoff, A. (64) 137)

Brain-specific serine protease
Motopsin; In situ hybridization; Motor neuron; Mouse (Iijima, N. (66) 141)

Brain spectrin
Blot overlay; Cytoskeleton; GAP-43; Microtubule; Rat; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

Brainstem
Hsp25; Hypoxia; Heat shock; Motor neuron; Axonal transport (Murashov, A.K. (63) 14)

Cell culture; Rat brain; Nicotinic receptor; Acetylcholine; Neuron; Cortex; $\alpha 4/\beta 2$ (Dávila-García, M.I. (66) 14)

BrdU incorporation
$5\text{-}HT_{1A}$ receptor; Transfected NIH-3T3 cell; *Xenopus laevis* (Cappellini, C. (63) 380)

Brn-3
POU domain; Neurotrophin; NGFI-A; Immediate early (Smith, M.D. (74) 117)

BV2, brain
Interleukin 18; IL-18, lipopolysaccharide; Interleukin-1β converting enzyme; Microglia; Astrocyte (Conti, B. (67) 46)

C

C100
PC12; Bradykinin; Calcium (Pascale, A. (72) 205)

Ca^{2+} entry
ACh receptor; Protein kinase C; cAMP-dependent protein kinase; Phosphorylation (Nishizaki, T. (69) 295)

Ca^{2+}/H^{+} antiport
Cations transport; Synaptic vesicle; Brain cortex (Gonçalves, P.P. (67) 283)

Synaptic vesicle; Brain cortex (Gonçalves, P.P. (71) 178)

Calbindin
Hypothalamus; Development; Rat; mRNA (Stuart, E. (73) 60)

Calbindin-D_{28k}
Apoptosis; Calcium; Beta amyloid (Wernyj, R.P. (64) 69)

Calcitonin gene-related peptide
Islet amyloid polypeptide; Substance P; Gene knock out; Dorsal root ganglion (DRG) neurons; Paw formalin test; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

Messenger RNA; Oculomotor nucleus; Trochlear nucleus; Abducens nucleus; Trigeminal motor nucleus (Fukuoka, T. (63) 304)

Calcium
Cortex; Endoplasmic reticulum; gadd34; Hippocampus; Protein synthesis; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

Cerebellar granule cells; Secretogranin-II; BDNF; mRNA expression (Fujita, Y. (63) 316)

Calbindin-D_{28k}; Apoptosis; Beta amyloid (Wernyj, R.P. (64) 69)

Protein kinase C; PKC isoform; Hippocampal neuron; Glutamate; Cell nucleus (Buchner, K. (64) 222)

Exocytosis; Cytoskeleton; Protein kinase C; Noradrenaline (Danks, K. (64) 236)

Alzheimer's disease; Aβ; Hydrogen peroxide; PC12; A23187 (McKeon-O'Malley, C. (72) 103)

Calreticulin; NG108-15 cell; KDEL protein (Xiao, G. (72) 121)

PC12; C100; Bradykinin (Pascale, A. (72) 205)

Calcium assay
Arachidonic acid; AMPA receptor; Potentiation; CaMKII; Voltage-clamp (Nishizaki, T. (67) 184)

Calcium channel
Neurofilament; Phosphorylation; Depolarization; MAPK; PC12 cell (Li, B.-S. (70) 84)

Calmodulin gene expression
In situ hybridization; Water deprivation; Supraoptic nucleus; Paraventricular hypothalamic nucleus; Rat (Palfi, A. (74) 111)

Calreticulin
Calcium; NG108-15 cell; KDEL protein (Xiao, G. (72) 121)

CaMKII
Arachidonic acid; AMPA receptor; Potentiation; Voltage-clamp; Calcium assay (Nishizaki, T. (67) 184)

CaM kinase
Expression; Isoform; Mouse; Targeting (Bayer, K.-U. (70) 147)

Cannabinoid receptor
Δ^9-Tetrahydrocannabinol; Proenkephalin; mRNA; [^{35}S]GTPγ binding; Caudate–putamen (Corchero, J. (67) 148)

Ca^{2+} permeability
NMDA receptor; Mg^{2+} block; Adenovirus; Gene transfer; Hippocampal neuron; Postsynaptic receptor (Yamada, N. (68) 169)

Ca^{2+}-permeable AMPA receptor
Adenovirus; Gene transfer; PC12 cell; Hippocampal neuron; Glutamatergic synapse (Sudo, M. (65) 176)

Capillary density
Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Hypoxia; VEGF (Badr, G.A. (64) 24)

Carbamazepine
Bipolar disorder; Lithium; Valproate; Phosphoinositide (Pacheco, M.A. (72) 138)

Carbon monoxide
Pineal; Nitric oxide; Nitric oxide synthase; Heme oxygenase; RT-PCR; Light/dark cycle (Jacobs, R.A. (70) 264)

Carboxypeptidase A
Promoter; PC12 cell; Nerve growth factor; Cerebral cortex; Primary sensory neuron (Miyasaka, N. (69) 62)

Cardiac arrest
Global cerebral ischemia; TUNEL staining; Immediate early gene; Mouse (Böttiger, B.W. (65) 135)

Cardiovascular
Respiration; Nociception; Somatosensory; Viscerosensory (Guthmann, A. (74) 145)

Caspase
Neuronal death; Cerebellar granule cell; Apoptosis; Cytochrome *c*; 6-Hydroxydopamine; Parkinson's disease (Dodel, R.C. (64) 141)

Cell death; Apoptosis; Epilepsy; Nitric oxide; c-Jun (Becker, A.J. (67) 172)

Glutamate; Neuron; Apoptosis; Bcl-2; Basic fibroblast growth factor (Liu, X. (71) 210)

Caspase-3 induction
Cultured brain neurons; Hypoxia/reoxygenation; Apoptosis; PARP cleavage; Caspase inhibitors; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

Caspase inhibitor
Retinal ganglion cell; Apoptosis; Axotomy; Microglia (Chaudhary, P. (67) 36)

Caspase inhibitors
Cultured brain neurons; Hypoxia/reoxygenation; Apoptosis; Caspase-3 induction; PARP cleavage; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

Catalase
Reactive oxygen species; Superoxide dismutase; Neuroglioma; Anti-Fas antibody (Jayanthi, S. (72) 158)

Catecholamine
Stimulus-transcription coupling; Receptor; Cycloheximide; Lactacystin; Ascorbic acid (Schmidt, J. (73) 50)

Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Cations transport
Ca^{2+}/H^{+} antiport; Synaptic vesicle; Brain cortex (Gonçalves, P.P. (67) 283)

Caudate nucleus
Neurotensin; Dopamine; Striatum; Extrapyramidal; Parkinson's disease (Hanson, G.R. (66) 111)

Caudate–putamen
Δ^9-Tetrahydrocannabinol; Proenkephalin; Cannabinoid receptor; mRNA; [^{35}S]GTPγ binding (Corchero, J. (67) 148)

Dopamine receptor; Corticosterone; Nucleus accumbens; Promoter; Transcription (Lammers, C.-H. (69) 281)

CCAAT/enhancer binding proteins related activating transcription factor, C/ATF
cAMP; Hippocampal neurons; Activating transcription factor 4, ATF4; CREB binding protein/p300, CBP/p300 (Yukawa, K. (69) 124)

CD4
Microglia; Cell culture; Brain region; Differential mRNA expression; Inflammation; TNF-α; Fcγ receptor II; IL-3 receptor β (Ren, L.-q. (65) 198)

Cell culture
Microglia; Brain region; Differential mRNA expression; Inflammation; CD4; TNF-α; Fcγ receptor II; IL-3 receptor β (Ren, L.-q. (65) 198)

Rat brain; Nicotinic receptor; Acetylcholine; Neuron; Cortex; Brainstem; α4/β2 (Dávila-García, M.I. (66) 14)

Cell cycle
p53; Cyclin D1; Cell death; Apoptosis; Traumatic brain injury (Napieralski, J.A. (71) 78)

Cell death
Neuronal plasticity; Transporter; Excitatory amino acid (Simantov, R. (65) 112)

Apoptosis; Epilepsy; Caspase; Nitric oxide; c-Jun (Becker, A.J. (67) 172)

GFRα; Hypoglossal; Axotomy; Regeneration (Tsujino, H. (70) 298)

p53; Cyclin D1; Cell cycle; Apoptosis; Traumatic brain injury (Napieralski, J.A. (71) 78)

Hypoxia; Neuron; Apoptosis; Gene (Banasiak, K.J. (72) 214)

Cell nucleus
Protein kinase C; PKC isoform; Hippocampal neuron; Glutamate; Calcium (Buchner, K. (64) 222)

Cell proliferation
Apoptosis; Ionizing radiation; Dentate gyrus; TUNEL; Ki-67; NeuN (Peißner, W. (71) 61)

Central nervous system
In situ hybridization; *nm23*; Mouse; Northern blot; Nucleoside diphosphate kinase (Dabernat, S. (63) 351)

Cyclic AMP response element-binding protein; Transcription factor; Alternative splicing; Messenger RNA; Gene regulation (Pietruck, C. (69) 286)

Alzheimer's disease; Apolipoprotein D; Apolipoprotein E; Astrocyte; Hippocampus; Lipocalin (Terrisse, L. (70) 26)

Cerebellar granule cell
Neuronal death; Apoptosis; Caspase; Cytochrome *c*; 6-Hydroxydopamine; Parkinson's disease (Dodel, R.C. (64) 141)

Cerebellar granule cells
Secretogranin-II; BDNF; Calcium; mRNA expression (Fujita, Y. (63) 316)

Cerebellum
Glutamate transporter; Purkinje cell; cDNA; Ligand-gated chloride channel (Lin, C.-L.G. (63) 174)

Aldolase C mRNA; c-*fos* mRNA expression; Dopamine; In situ hybridization; Methamphetamine (Hamamura, M. (64) 119)

Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cortex (Gayle, D. (70) 92)

Heat shock protein; Chaperone; Learning; Stress; Synaptic plasticity (Ambrosini, M.V. (70) 164)

GABA; $GABA_B$ receptor; Baclofen; Receptor purification; Inhibitory amino acid receptor; CGP 62349 (Keir, M.J. (71) 279)

Cerebral blood flow
Blood–brain barrier; Ischemia; Mouse; Middle cerebral artery occlusion; Reperfusion (Mao, Y. (63) 366)

Cerebral cortex
Promoter; PC12 cell; Nerve growth factor; Primary sensory neuron; Carboxypeptidase A (Miyasaka, N. (69) 62)

Cerebral ischemia
Astroglia; Neuronal death; GFAP and GLUT3 mRNA (Liu, D. (68) 29)

JNK; JIP-1; c-Jun; PAG608; p53 (Gillardon, F. (73) 138)

c-*fos*
Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Oligodendrocyte; AMPA receptor; MAPK (Liu, H.-N. (66) 50)

Circadian rhythm; *NGFI-A*; Acetylcholine (O'Hara, B.F. (66) 71)

C-fos
MDMA; LSD; THC; Cocaine; Morphine; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

C-*fos*
Morphine; Sensitization; Dorsal striatum; In situ hybridization; Retrograde tracing (Erdtmann-Vourliotis, M. (72) 1)

Ibogaine; *Egr-1*; Early gene expression; Neurotoxicity (Ali, S.F. (74) 237)

c-*fos* induction
Antisense oligonucleotide; Phosphorothioate; Intracerebral injection; Confocal microscopy (Grzanna, R. (63) 35)

C6 glioma
[^{32}P]-Protein phosphorylation; Two dimensional gel electrophoresis; Signal transduction; β-Adrenergic receptor; G protein-coupled receptor (Storm, S.M. (71) 50)

CGP 62349
GABA; $GABA_B$ receptor; Baclofen; Cerebellum; Receptor purification; Inhibitory amino acid receptor (Keir, M.J. (71) 279)

CGRP-RCP
Guinea-pig brain; CGRP receptor; In situ hybridization; Oligonucleotide (Oliver, K.R. (66) 205)

CGRP receptor
Guinea-pig brain; CGRP-RCP; In situ hybridization; Oligonucleotide (Oliver, K.R. (66) 205)

Chaperone
Heat shock protein; Learning; Stress; Cerebellum; Synaptic plasticity (Ambrosini, M.V. (70) 164)

Chemokine
Brain; Inflammation; Ischemia (Wang, X. (71) 304)

C3H / HeJ
Pineal; Retina; Circadian; RNA splicing; Cryptic splice acceptor site (Roseboom, P.H. (63) 189)

Chicken
Potassium channel gene; Cochlea; Development; cDNA cloning (Rajeevan, M.S. (66) 83)

Cyclic nucleotide-activated ion channel; CNG channel (Timpe, L.C. (66) 175)

Chicken brain
PACAP; Neuropeptide; Sequence; In situ hybridization (Peeters, K. (71) 244)

Cholinergic
NMDA; Glutamate receptors; Neostriatum; Interneurons (Standaert, D.G. (64) 11)

Cholinesterase inhibitor
In situ hybridization; Gene, fos; Mice, transgenic; Photoreceptor, vertebrate (Broide, R.S. (71) 137)

Chromosomal mapping
Small GTP-binding protein; Rho subfamily; cDNA cloning; RNA blot hybridization; In situ hybridization; Genomic organization (Nishi, M. (67) 74)

Neuropeptide Y; Peptide YY; G-protein-coupled receptor; Microphysiometer; Zebrafish; Evolution; Gene family (Starbäck, P. (70) 242)

Chromosome
Receptor; GPCR; Intronless; Pseudogene; Northern blot (Sawzdargo, M. (64) 193)

Chronic ethanol
$GABA_A$ receptor; Anti-α_1 antibody; Immunoprecipitation; Radioligand binding (Mehta, A.K. (67) 194)

Circadian
Pineal; Retina; C3H/HeJ; RNA splicing; Cryptic splice acceptor site (Roseboom, P.H. (63) 189)

Circadian photoreceptor
Molecular clock; Liver; Testis; Phase shift (Miyamoto, Y. (71) 238)

Circadian rhythm
In situ hybridization histochemistry; Vasoactive intestinal polypeptide; VPAC2 receptor; Rat (Shinohara, K. (63) 262)

Suprachiasmatic nucleus; *Period* repeat sequence; EMSA (Hamada, T. (65) 211)

c-*fos*; *NGFI-A*; Acetylcholine (O'Hara, B.F. (66) 71)

Suprachiasmatic nucleus; *Clock*; *BMAL1*; *per*; Light (Abe, H. (66) 104)

Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Photoreceptor; *Clock*; *rd* chicken; Iodopsin; Phototransduction (Larkin, P. (70) 253)

Suprachiasmatic nucleus; Reticular thalamic nucleus; γ-Aminobutyric acid; In situ hybridization (Duncan, M.J. (71) 325)

Exo-rhodopsin; Rhodopsin; Opsin; Pineal gland; Zebrafish (*Danio rerio*) (Mano, H. (73) 110)

Melatonin; PCR select; Suppression subtractive hybridization; Heme-binding protein (Zylka, M.J. (74) 175)

Circadian rhythms
Cone photoreceptors; Messenger RNA; Rhodopsin; Rod photoreceptors; Ultraviolet-sensitive opsin (Von Schantz, M. (72) 108)

Circling training
GAP-43/B-50; PKC; SPM; Development; Rat striatum (Paratcha, G.C. (65) 34)

***Cis*-acting element**
Aromatase; Promoter region; Transcriptional regulation (Honda, S.-i. (66) 122)

***Cis–trans* interaction**
TGF-β_1; APP gene expression; Post-transcription (Amara, F.M. (71) 42)

C-jun
Trisomy-16 mouse; Down's syndrome; Astrocyte; Embryonic primary culture; Activator protein-1; Hydrogen peroxide (Scortegagna, M. (73) 144)

Clathrin light chain B
Alternative splicing; Transformer-2 (Stamm, S. (64) 108)

Clock
Circadian rhythm; Suprachiasmatic nucleus; *BMAL1*; *per*; Light (Abe, H. (66) 104)

Photoreceptor; Circadian rhythm; *rd* chicken; Iodopsin; Phototransduction (Larkin, P. (70) 253)

Cloning
Metabotropic glutamate receptor; Splice variant; L(+)-2-Amino-4-phosphonobutyric acid; Semliki Forest Virus (Malherbe, P. (67) 201)

μ-Opioid receptor; Bovine; Gene expression (Onoprishvili, I. (73) 129)

Clozapine
Medial prefrontal cortex; Neural injury; *N*-Methyl-D-aspartate receptor; Olanzapine; Risperidone (Nakahara, T. (73) 192)

CNG channel
Cyclic nucleotide-activated ion channel; Chicken (Timpe, L.C. (66) 175)

CNS
G protein-coupled receptor; In situ hybridization; Neuropeptide; Bombesin; Endothelin; Orphan receptor (Leng, N. (69) 73)

Galanin; Restraint stress; Preprogalanin mRNA; Rat; Spontaneously hypertensive rat (Sweerts, B.W. (69) 113)

p53; Transgenic mice; PNS (Tendler, Y. (72) 40)

Cocaine
MDMA; LSD; THC; Morphine; C-fos; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

Dopamine transporter; Transgenic mice; Conditioned place preference; Drug reward; MPTP (Donovan, D.M. (73) 37)

Reverse transcription; Polymerase chain reaction; mRNA; Human brain; Cocaine delirium (Chen, L. (73) 180)

Cocaine delirium
Cocaine; Reverse transcription; Polymerase chain reaction; mRNA; Human brain (Chen, L. (73) 180)

Cochlea
Chicken; Potassium channel gene; Development; cDNA cloning (Rajeevan, M.S. (66) 83)

Serotonin receptor; Organ of Corti; Spiral ganglion; Lateral wall (Oh, C.K. (70) 135)

Ecto-ATPase; Ecto-ATPDase; Brain; Purinergic transmission; Alternative splicing (Vlajkovic, S.M. (73) 85)

Cognition
Neurodegeneration; Transgenic mouse; Spatial learning; Alzheimer's disease; Amyloid precursor protein; Gene; Neurotoxicity (Berger-Sweeney, J. (66) 150)

Competitive PCR
Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Brain microvessel; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Competitive reverse transcription–polymerase chain reaction
Suprachiasmatic nucleus; mt_1 Melatonin receptor mRNA; Diurnal rhythm; Rat (Sugden, D. (72) 176)

Competitive RT-PCR
Alcohol; NMDA receptor-splice variant; Nucleus accumbens; Hippocampus; Western blot analysis (Winkler, A. (72) 166)

Comprehensive cDNA analysis
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Conditioned place preference
Cocaine; Dopamine transporter; Transgenic mice; Drug reward; MPTP (Donovan, D.M. (73) 37)

Cone photoreceptors
Circadian rhythms; Messenger RNA; Rhodopsin; Rod photoreceptors; Ultraviolet-sensitive opsin (Von Schantz, M. (72) 108)

Confocal microscopy
Antisense oligonucleotide; Phosphorothioate; Intracerebral injection; c-*fos* induction (Grzanna, R. (63) 35)

Copper
NPY; Olfactory; Neuron; Brain; Deficiency (Rutkoski, N.J. (65) 80)

Core region
Angiotensin; In situ hybridization; Oligodeoxynucleotide; Rostro-caudal pattern (Barth, S.W. (64) 151)

Cortex
Calcium; Endoplasmic reticulum; gadd34; Hippocampus; Protein synthesis; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

Cell culture; Rat brain; Nicotinic receptor; Acetylcholine; Neuron; Brainstem; $\alpha 4/\beta 2$ (Dávila-García, M.I. (66) 14)

Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cerebellum (Gayle, D. (70) 92)

Corticospinal tract
Eph receptor; Ephrin; Neural development; Trigeminal system; Hippocampus (Rogers, J.H. (74) 225)

Eph receptor; Hippocampus; Motor cortex; Purkinje cell (Ciossek, T. (74) 231)

Corticosterone
Dopamine receptor; Caudate–putamen; Nucleus accumbens; Promoter; Transcription (Lammers, C.-H. (69) 281)

Corticostriatal
Antisense; Adenosine; Striatum; In situ hybridization; Receptor autoradiography (Phan, T.A. (72) 226)

Corticotropin-releasing factor
Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; c-*fos*; Stress; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Corticotropin-releasing hormone
Vasopressin; Hypothalamic paraventricular nucleus; Heteronuclear RNA; Stress (Ma, X.-M. (68) 129)

Proopiomelanocortin; Messenger RNA; Repeated stress; Immobilization; Adaptation (Škultétyová, I. (68) 190)

CpG island
Estrogen; Estrogen receptor; *N*-methyl-D-aspartate receptor; Estrogen responsive element; Brain (Watanabe, T. (63) 375)

C1q-like
Novel gene; Motor function; Brain; In situ hybridization (Bérubé, N.G. (63) 233)

CREB
Okadaic acid; Alzheimer's disease; c-Jun; PC12 cell; AP-1 (Woodgate, A. (66) 211)

Avoidance training; Fos; Jun; Gel shift; Hippocampus; Neocortex; Behavior (Lukasiuk, K. (67) 64)

Lithium; Valproate; Phosphorylation; c-Fos; c-Jun; Bipolar disorder (Chen, B. (70) 45)

Tyrosine hydroxylase; PC12; Antisense RNA; cAMP (Piech-Dumas, K.M. (70) 219)

CREB / ATF
Gliosis; Molecular cloning; In situ hybridization; Reactive astrocyte (Honma, Y. (69) 93)

CREB binding protein / p300, CBP / p300
CCAAT/enhancer binding proteins related activating transcription factor, C/ATF; cAMP; Hippocampal neurons; Activating transcription factor 4, ATF4 (Yukawa, K. (69) 124)

CRF-binding protien
Urocortin; Neuropeptide; In situ; mRNA (Cepoi, D. (68) 109)

Cross-species hybridization
p75; NGF; NT-3; Histochemistry; *Monodelphis domestica* (Luque, J.M. (65) 129)

Cryptic splice acceptor site
Pineal; Retina; C3H/HeJ; Circadian; RNA splicing (Roseboom, P.H. (63) 189)

Csk kinase
Cultured neuron; NMDA receptor regulation; Phosphorylation; Ethanol; Fyn kinase (Kalluri, H.S.G. (68) 159)

CT-1
IL-11; Soluble receptor; Neurotrophic; Neuropoietic cytokine; Sensory neuron (Thier, M. (64) 80)

Cultured brain neurons
Hypoxia/reoxygenation; Apoptosis; Caspase-3 induction; PARP cleavage; Caspase inhibitors; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

Cultured neuron
Hypoxia; Developing rat brain; Apoptosis; Transcription factor; c-Jun N-terminal kinase (Chihab, R. (63) 105)

NMDA receptor regulation; MK-801; Tyrosine kinase (Kalluri, H.S.G. (65) 206)

NMDA receptor regulation; Phosphorylation; Ethanol; Fyn kinase; Csk kinase (Kalluri, H.S.G. (68) 159)

Cybrid
Alzheimer's disease; Glutathione; Heat shock factor; Oxidative stress; Reactive oxygen intermediate (Bijur, G.N. (71) 69)

Cyclic AMP
PC12; Protein tyrosine phosphatase; Striatum; Cyclic AMP-dependent protein kinase (Okamura, A. (67) 1)

Cyclic AMP-dependent protein kinase
PC12; Protein tyrosine phosphatase; Striatum; Cyclic AMP (Okamura, A. (67) 1)

Cyclic AMP response element-binding protein
Transcription factor; Alternative splicing; Messenger RNA; Gene regulation; Central nervous system (Pietruck, C. (69) 286)

Cyclic nucleotide-activated ion channel
CNG channel; Chicken (Timpe, L.C. (66) 175)

Cyclin
p53; Neurofilament; Dephosphorylation; Development (Van Lookeren Campagne, M. (64) 1)

Cyclin D1
p53; Cell cycle; Cell death; Apoptosis; Traumatic brain injury (Napieralski, J.A. (71) 78)

Cycloheximide
Kainic acid; Seizure; p53; DNA-binding; Neuronal apoptosis (Liu, W. (63) 248)

Stimulus-transcription coupling; Receptor; Lactacystin; Ascorbic acid; Catecholamine (Schmidt, J. (73) 50)

Cytochrome *c*
Neuronal death; Cerebellar granule cell; Apoptosis; Caspase; 6-Hydroxydopamine; Parkinson's disease (Dodel, R.C. (64) 141)

Cytochrome *c* oxidase
Epilepsy; El mouse; Differential display; NADH dehydrogenase; Vestibular stimulation (Yamada, Y. (73) 185)

Cytokine
Scrapie; Prion; Astrocyte; NF-κB; Reactive oxygen species (Kim, J.-I. (73) 17)

Cytoskeleton
Exocytosis; Calcium; Protein kinase C; Noradrenaline (Danks, K. (64) 236)

Blot overlay; Brain spectrin; GAP-43; Microtubule; Rat; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

D

Daidzein
Recombinant $GABA_A$ receptor; Protein tyrosine phosphorylation; Tyrosine kinase; Genistein; Lavendustin A (Huang, R.-Q. (67) 177)

DCK
NMDA receptor; Pharmacology; Efficacy; Affinity; HA-966 (Wood, M.W. (73) 188)

D_{1A} dopamine receptor
AP-2β; Gene regulation; Silencer; Repressor; Differentiation (Takeuchi, S. (74) 208)

Deactivation
Patch clamp; Single channel; IPSC; Alpha-5 subtype (Burgard, E.C. (73) 28)

Deaminase
Glutamate receptor; Oligodendrocyte; Rat; Bovine (De Zulueta, M.P. (73) 104)

Deficiency
NPY; Olfactory; Neuron; Brain; Copper (Rutkoski, N.J. (65) 80)

Degenerate PCR
G protein-coupled receptor; Splice variant; Truncated receptor; Donor/acceptor site; HA epitope (Olsen, M.A. (64) 255)

Dementia
Tau protein; Isoform; Mammalian phylogeny; Two-dimensional gel electrophoresis (Janke, C. (68) 119)

Dendrite
Immunohistochemistry; Neural tissue-specific gene; Outgrowth (Shinozaki, K. (71) 364)

mRNA; Local protein synthesis; Postsynaptic density; Synaptic plasticity (Tian, Q.B. (72) 147)

Dentate gyrus
Apoptosis; Ionizing radiation; Cell proliferation; TUNEL; Ki-67; NeuN (Peißner, W. (71) 61)

Dephosphorylation
p53; Neurofilament; Cyclin; Development (Van Lookeren Campagne, M. (64) 1)

Depolarization
Neurofilament; Phosphorylation; Calcium channel; MAPK; PC12 cell (Li, B.-S. (70) 84)

Depression
Stress; mRNA; Tyrosine hydroxylase; Dopamine β-hydroxylase; Neuropeptide Y; Adrenal; Dopaminergic neuron (Serova, L. (63) 133)

Developing rat brain
Hypoxia; Cultured neuron; Apoptosis; Transcription factor; c-Jun N-terminal kinase (Chihab, R. (63) 105)

Development
Kainic acid; Fos–lacZ; Transgenic mice; Glutamate signalling; Neurotoxicity (Vendrell, M. (63) 25)

Seizure; Transcription factor; Neuronal damage (Dubé, C. (63) 139)

Estrogen; Striatum; Aromatase; RT-PCR; Immunocytochemsitry (Küppers, E. (63) 184)

p53; Neurofilament; Cyclin; Dephosphorylation (Van Lookeren Campagne, M. (64) 1)

GAP-43/B-50; PKC; SPM; Circling training; Rat striatum (Paratcha, G.C. (65) 34)

NMDA receptor; Subunit; Protein; Hippocampus; Lead (Nihei, M.K. (66) 42)

Chicken; Potassium channel gene; Cochlea; cDNA cloning (Rajeevan, M.S. (66) 83)

$GABA_A$ receptor; In situ hybridisation; mRNA transport; Rat (Poulter, M.O. (69) 44)

Rho GTPase; In situ hybridization; Brain (Olenik, C. (70) 9)

Serine protease; Proteolipid protein (Yamanaka, H. (71) 217)

Calbindin; Hypothalamus; Rat; mRNA (Stuart, E. (73) 60)

GDNF; Neurturin; GPI-linked receptor; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

Brain; Very-long-chain fatty acids; Peroxisomes; β-Oxidation; Myelination (Knoll, A. (74) 217)

Differential display
Drosophila; Anoxia; *fau*; In situ hybridization (Ma, E. (63) 217)

Thyroid hormone; Gene regulation; SWAP gene; Splicing (Cuadrado, A. (71) 332)

Epilepsy; El mouse; Cytochrome *c* oxidase; NADH dehydrogenase; Vestibular stimulation (Yamada, Y. (73) 185)

Glucose metabolism; Glucose transport; Anaerobic glycolysis (Niitsu, Y. (74) 26)

Differential display PCR
Lithium; Nitrogen permease regulator; Bipolar disorder; Gene expression (Wang, J.-F. (70) 66)

Differential display screening
Isopentenyl diphosphate isomerase; Hypoglossal nerve regeneration; Brain development; Rat cerebral cortex; Myelination (Morihara, T. (67) 231)

Differential mRNA expression
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Differentiation
Nitric oxide; Dominant negative mutant; Soluble guanylate cyclase (Phung, Y.T. (64) 165)

PAC1-R; p53; Zac; Ischemia; Apoptosis (Ciani, E. (69) 290)

AP-2β; D_{1A} dopamine receptor; Gene regulation; Silencer; Repressor (Takeuchi, S. (74) 208)

Diffuse axonal injury
Immediate early gene; Antisense targeting; Retrograde labeling (Kreutz, M.R. (69) 232)

Dihydrotestosterone
Androgen receptor; Progesterone receptor; Peripheral myelin protein Po; Schwann cell; Sciatic nerve (Magnaghi, V. (70) 36)

Diurnal
Brain-derived neurotrophic factor; Promoter; Exon; Hippocampus; Plasticity (Berchtold, N.C. (71) 11)

Diurnal rhythm
Suprachiasmatic nucleus; mt_1 Melatonin receptor mRNA; Competitive reverse transcription–polymerase chain reaction; Rat (Sugden, D. (72) 176)

Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a*,*d*]cyclohepten-5,10-imine maleate)
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB*, *fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

cDNA
Glutamate transporter; Cerebellum; Purkinje cell; Ligand-gated chloride channel (Lin, C.-L.G. (63) 174)

Glial cell line-derived neurotrophic factor; Neurotrophin; Promoter (Baecker, P.A. (69) 209)

cDNA clone
$GABA_B$ receptor; Brain-specific; Signal sequence (Makoff, A. (64) 137)

cDNA cloning
Chicken; Potassium channel gene; Cochlea; Development (Rajeevan, M.S. (66) 83)

Small GTP-binding protein; Rho subfamily; RNA blot hybridization; In situ hybridization; Genomic organization; Chromosomal mapping (Nishi, M. (67) 74)

Bdm1; Brain development; mRNA expression; In situ hybridization (Yamauchi, Y. (68) 149)

DNA-binding
Kainic acid; Seizure; p53; Neuronal apoptosis; Cycloheximide (Liu, W. (63) 248)

DNA damage
Ischemic preconditioning; Rat; p53; $p21^{WAF1/Cip1}$; PAG608/Wig-1 (Tomasevic, G. (70) 304)

DNA methylation
Receptor for advanced glycated end products (RAGE); Promoter; Transcription factor binding site; Brain (Tohgi, H. (65) 124)

DNA methylation pattern
DNA methyltransferase; Nerve growth factor; PC12 differentiation; Myotube differentiation; Terminal differentiation (Deng, J. (71) 23)

DNA methylcytosine
Amyloid precursor protein gene; Promoter; Brain (Tohgi, H. (70) 288)

DNA methyltransferase
DNA methylation pattern; Nerve growth factor; PC12 differentiation; Myotube differentiation; Terminal differentiation (Deng, J. (71) 23)

DOI
c-Fos; Parietal cortex; 5-HT2A receptors; Immunohistochemistry; Double labeling (Maćkowiak, M. (71) 358)

Dominant negative mutant
Differentiation; Nitric oxide; Soluble guanylate cyclase (Phung, Y.T. (64) 165)

Donor/acceptor site
G protein-coupled receptor; Degenerate PCR; Splice variant; Truncated receptor; HA epitope (Olsen, M.A. (64) 255)

L-DOPA
Tryptophan hydroxylase; Quinone; Redox-cycling; Serotonin neuron (Kuhn, D.M. (73) 78)

Dopamine
Aldolase C mRNA; c-*fos* mRNA expression; Cerebellum; In situ hybridization; Methamphetamine (Hamamura, M. (64) 119)

Neurotensin; Striatum; Extrapyramidal; Caudate nucleus; Parkinson's disease (Hanson, G.R. (66) 111)

Substance P; Basal ganglia; α-Methyl-*p*-tyrosine; Ritanserin (Gresch, P.J. (67) 190)

Dopamine antagonist
Globus pallidus; Enkephalin; 6-Hydroxydopamine (Schuller, J.J. (69) 149)

Dopamine β-hydroxylase
Depression; Stress; mRNA; Tyrosine hydroxylase; Neuropeptide Y; Adrenal; Dopaminergic neuron (Serova, L. (63) 133)

Dopamine receptor
Corticosterone; Caudate–putamen; Nucleus accumbens; Promoter; Transcription (Lammers, C.-H. (69) 281)

Basal ganglia; Parkinson's disease; Serotonin receptor; Substance P; In situ hybridization (Gresch, P.J. (70) 125)

Dopaminergic neuron
Depression; Stress; mRNA; Tyrosine hydroxylase; Dopamine β-hydroxylase; Neuropeptide Y; Adrenal (Serova, L. (63) 133)

Dopamine transport
Apoptosis; Necrosis; Parkinson's disease (Woodgate, A. (69) 84)

Dopamine transporter
Cocaine; Transgenic mice; Conditioned place preference; Drug reward; MPTP (Donovan, D.M. (73) 37)

Human; Transcription regulation; *cis*-Regulatory element; Nurr1; Gene (Sacchetti, P. (74) 167)

Dorsal raphe nucleus
5-hydroxytryptamine; Testosterone; Estrogen; Serotonin transporter (McQueen, J.K. (63) 241)

Dorsal root ganglia
GDNF; NGF; SNS/PN3; NaN; IB4; Ion channel (Fjell, J. (67) 267)

Dorsal root ganglion (DRG) neurons
Islet amyloid polypeptide; Calcitonin gene-related peptide; Substance P; Gene knock out; Paw formalin test; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

Dorsal striatum
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Double in situ hybridization
γ-Aminobutyric acid; Glutamic acid decarboxylase; GAD (Stone, D.J. (71) 201)

Double labeling
c-Fos; Parietal cortex; DOI; 5-HT2A receptors; Immunohistochemistry (Maćkowiak, M. (71) 358)

Down's syndrome
Trisomy-16 mouse; Astrocyte; Embryonic primary culture; Activator protein-1; C-jun; Hydrogen peroxide (Scortegagna, M. (73) 144)

Dri 42
In situ hybridization; Phosphatidic acid phosphatase; Ventricular germinal zone; Bergmann glia (Suzuki, R. (66) 195)

Drosophila
Anoxia; Differential display; *fau*; In situ hybridization (Ma, E. (63) 217)

HIF-1α; HIF-1β; Anoxia (Ma, E. (73) 11)

Drug reward
Cocaine; Dopamine transporter; Transgenic mice; Conditioned place preference; MPTP (Donovan, D.M. (73) 37)

E

Early gene expression
Ibogaine; *Egr-1*; C-*fos*; Neurotoxicity (Ali, S.F. (74) 237)

Early growth response-1
Sphingosine 1-phosphate; Fibroblast growth factor-2; GTP-binding protein; Pertussis toxin; Protein kinase C (Sato, K. (74) 182)

Ecto-ATPase
Ecto-ATPDase; Cochlea; Brain; Purinergic transmission; Alternative splicing (Vlajkovic, S.M. (73) 85)

Ecto-ATPDase
Ecto-ATPase; Cochlea; Brain; Purinergic transmission; Alternative splicing (Vlajkovic, S.M. (73) 85)

Efficacy
NMDA receptor; Pharmacology; Affinity; DCK; HA-966 (Wood, M.W. (73) 188)

EGFP
Sindbis virus; Gene transfer; Neuron; Glia; *LacZ* (Gwag, B.J. (63) 53)

Egr-1
Ibogaine; C-*fos*; Early gene expression; Neurotoxicity (Ali, S.F. (74) 237)

***Ei* nucleoside transporter**
Adenosine; Adenosine transport; ENT2; In situ hybridization; RT-PCR; Nitrobenzylthioinosine (Anderson, C.M. (70) 293)

Electrocardiogram
Vesicular monoamine transporter 2; Transgenic mouse; Telemetry; Prolonged QT (Itokawa, K. (71) 354)

Electron microscopy
ATP-sensitive potassium channel; Neuron; Glia; In situ hybridization; Immunohistochemistry (Zhou, M. (74) 15)

Electrophoretic mobility shift assay
NF-κB; Stroke; Ischemia; Transcription factor (Zhang, S. (63) 121)

AK1; Neurite outgrowth; NeuroD; PC12; Promoter; Transactivation (Noma, T. (67) 53)

NF-κB; Rel; Transcription factor; UV-cross-linking (Moerman, A.M. (67) 303)

El mouse
Epilepsy; Differential display; Cytochrome *c* oxidase; NADH dehydrogenase; Vestibular stimulation (Yamada, Y. (73) 185)

Embryo
Kappa opioid receptor; Transgenic mouse; Gene expression; Promoter (Hu, X. (69) 35)

Embryonic primary culture
Trisomy-16 mouse; Down's syndrome; Astrocyte; Activator protein-1; C-jun; Hydrogen peroxide (Scortegagna, M. (73) 144)

EMSA
Circadian rhythm; Suprachiasmatic nucleus; *Period* repeat sequence (Hamada, T. (65) 211)

Endocrine disruptor
Paraventricular nucleus; 17β-Estradiol; ERβ; Phytoestrogen (Patisaul, H.B. (67) 165)

Endocytosis
Synaptojanin; Synapse; Brain; Rat; In situ hybridization histochemistry (Kudo, M. (64) 179)

Endoplasmic reticulum
Calcium; Cortex; gadd34; Hippocampus; Protein synthesis; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

β-Endorphin
Menopause; Hypothalamus; Luteinizing hormone; Estrogen; Aging; Proopiomelanocortin (Abel, T.W. (69) 202)

Proopiomelanocortin; Enkephalin; μ-Opioid receptor; Arcuate nucleus; Reproduction (Bouret, S. (70) 155)

Endothelial cell
Hypothermia; Vascular endothelial growth factor; Permeability; Hypoxia (Fischer, S. (74) 135)

Endothelin
G protein-coupled receptor; CNS; In situ hybridization; Neuropeptide; Bombesin; Orphan receptor (Leng, N. (69) 73)

Endothelin-converting enzyme
Zinc metallopeptidase; Neutral endopeptidase; Spinal cord; Medulla (Valdenaire, O. (64) 211)

Enkephalin
Hamster; Adrenal medulla; Striatum; Mifepristone (RU 486); Glucocorticoid (Jimenez, R. (66) 179)

Opioid receptor; Knockout; Amygdala; Hypothalamus; Autoradiography (Brady, L.S. (68) 193)

Globus pallidus; 6-Hydroxydopamine; Dopamine antagonist (Schuller, J.J. (69) 149)

Proopiomelanocortin; β-Endorphin; μ-Opioid receptor; Arcuate nucleus; Reproduction (Bouret, S. (70) 155)

ENT2
Adenosine; Adenosine transport; *Ei* nucleoside transporter; In situ hybridization; RT-PCR; Nitrobenzylthioinosine (Anderson, C.M. (70) 293)

Entorhinal cortex
Aging; Alzheimer's disease; Hippocampus; In situ hybridisation; Nicotinic receptor (Terzano, S. (63) 72)

Entrainment
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB; NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Eph receptor
Ephrin; Neural development; Trigeminal system; Corticospinal tract; Hippocampus (Rogers, J.H. (74) 225)

Corticospinal tract; Hippocampus; Motor cortex; Purkinje cell (Ciossek, T. (74) 231)

Ephrin
Eph receptor; Neural development; Trigeminal system; Corticospinal tract; Hippocampus (Rogers, J.H. (74) 225)

(±)-Epibatidine
Fibroblast growth factor-2; Nicotinic acetylcholine receptor agonist; Brain-derived neurotrophic factor; Glial cell line-derived neurotrophic factor; Fibroblast growth factor receptor-1 (Belluardo, N. (74) 98)

Epilepsy
Cell death; Apoptosis; Caspase; Nitric oxide; c-Jun (Becker, A.J. (67) 172)

Acetylcholine; Neuronal degeneration (Follesa, P. (70) 1)

Neuropeptide Y; Neuropeptide Y receptor; Gene expression; Kindling (Kopp, J. (72) 17)

El mouse; Differential display; Cytochrome *c* oxidase; NADH dehydrogenase; Vestibular stimulation (Yamada, Y. (73) 185)

ERβ
Paraventricular nucleus; 17β-Estradiol; Phytoestrogen; Endocrine disruptor (Patisaul, H.B. (67) 165)

ES cell
Serotonin; Tryptophan hydroxylase; Pre-neuronal embryogenesis; Gene expression; Pre-implantation embryo (Walther, D.J. (68) 55)

EST
Hypoglossal nerve; Rat; Nerve regeneration; Nerve injury (Tanabe, K. (64) 34)

17β-Estradiol
Paraventricular nucleus; ERβ; Phytoestrogen; Endocrine disruptor (Patisaul, H.B. (67) 165)

Estradiol-17β
Serotonin transporter; 5-Hydroxytryptamine$_{2A}$ receptor; Tamoxifen; Estradiol receptor (Sumner, B.E.H. (73) 119)

Estradiol receptor
Serotonin transporter; 5-Hydroxytryptamine$_{2A}$ receptor; Estradiol-17β; Tamoxifen (Sumner, B.E.H. (73) 119)

Estrogen
Striatum; Development; Aromatase; RT-PCR; Immunocytochemsitry (Küppers, E. (63) 184)

5-hydroxytryptamine; Testosterone; Serotonin transporter; Dorsal raphe nucleus (McQueen, J.K. (63) 241)

Progestin; Macaque; Serotonin receptor; Hypothalamus (Gundlah, C. (63) 325)

Estrogen receptor; CpG island; *N*-methyl-D-aspartate receptor; Estrogen responsive element; Brain (Watanabe, T. (63) 375)

Testosterone; Menopause; Hypothalamus; Reproduction (Danzer, S.C. (66) 200)

Menopause; Hypothalamus; Luteinizing hormone; β-Endorphin; Aging; Proopiomelanocortin (Abel, T.W. (69) 202)

Affective disorder; mRNA; In situ hybridization; Limbic system (Österlund, M.K. (74) 158)

Estrogen receptor
Estrogen; CpG island; *N*-methyl-D-aspartate receptor; Estrogen responsive element; Brain (Watanabe, T. (63) 375)

Estrogen responsive element
Estrogen; Estrogen receptor; CpG island; *N*-methyl-D-aspartate receptor; Brain (Watanabe, T. (63) 375)

Ethanol
Rats; Behavioral dependence; Brain; Glycolysis; Glucose transporter (Eravci, M. (65) 103)

Cultured neuron; NMDA receptor regulation; Phosphorylation; Fyn kinase; Csk kinase (Kalluri, H.S.G. (68) 159)

Etoposide
Phosphatidylinositol; Okadaic acid; Phosphoinositide 3-kinase; Neuronal degeneration (Kyrylenko, S. (73) 197)

Evolution
Neuropeptide Y; Peptide YY; G-protein-coupled receptor; Microphysiometer; Zebrafish; Gene family; Chromosomal mapping (Starbäck, P. (70) 242)

Excitatory amino acid
Neuronal plasticity; Cell death; Transporter (Simantov, R. (65) 112)

Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB; NGFI-A (zif-268; Krox24)*; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

NGF; BDNF; NT-3; *trk*; Striatum (Canals, J.M. (69) 242)

Excitatory amino acid receptors
Glutamate receptors; Receptor modulation; Receptor down-regulation; Osmotic regulation; Vasopressin; Magnocellular neuroendocrine cells (Currás-Collazo, M.C. (70) 187)

Excitotoxicity
Neurodegeneration; Oxidative stress; NMDA receptor; IκBα; c-Myc; p53 (Nakai, M. (64) 59)

A170; MSP23; Oxidative stress; Kainic acid; Stress response; Stress protein (Nakaso, K. (69) 155)

Seizure; Strain; Apoptosis; TUNEL (Faherty, C.J. (70) 159)

Gene expression; Kainic acid (KA); Na^+/*myo*-inositol cotransporter; Organic osmolyte (Nonaka, M. (70) 179)

Exocytosis
Calcium; Cytoskeleton; Protein kinase C; Noradrenaline (Danks, K. (64) 236)

Exon
Brain-derived neurotrophic factor; Diurnal; Promoter; Hippocampus; Plasticity (Berchtold, N.C. (71) 11)

Exon regulation
Substantia nigra; Brain-derived neurotrophic factor; Kainic acid; In situ hybridization; RT-PCR (Aliaga, E. (71) 341)

Exo-rhodopsin
Rhodopsin; Opsin; Pineal gland; Circadian rhythm; Zebrafish (*Danio rerio*) (Mano, H. (73) 110)

Expression
CaM kinase; Isoform; Mouse; Targeting (Bayer, K.-U. (70) 147)

Extrapyramidal
Neurotensin; Dopamine; Striatum; Caudate nucleus; Parkinson's disease (Hanson, G.R. (66) 111)

F

Facial nucleus
Axotomy; In situ hybridization; Motoneuron; Oxytocin receptor; Vasopressin receptor (Chritin, M. (70) 210)

Fasciculation
GDNF; BDNF; Mesencephalic; Transmitter release; Synaptic protein (Feng, L. (66) 62)

fau
Drosophila; Anoxia; Differential display; In situ hybridization (Ma, E. (63) 217)

Fcγ receptor II
Microglia; Cell culture; Brain region; Differential mRNA expression; Inflammation; CD4; TNF-α; IL-3 receptor β (Ren, L.-q. (65) 198)

Feeding
Galanin mRNA; Ventromedial nucleus (Pu, S. (64) 85)

Northern blot; Neuropeptide; Sex; Season; Fish (Peyon, P. (74) 190)

Fibroblast growth factor-2
Nicotinic acetylcholine receptor agonist; (±)-Epibatidine; Brain-derived neurotrophic factor; Glial cell line-derived neurotrophic factor; Fibroblast growth factor receptor-1 (Belluardo, N. (74) 98)

Sphingosine 1-phosphate; Early growth response-1; GTP-binding protein; Pertussis toxin; Protein kinase C (Sato, K. (74) 182)

Fibroblast growth factor receptor
Basic fibroblast growth factor; Astrocyte; Serum-free; Glucose-free; Glutamate (Liu, X. (71) 171)

Fibroblast growth factor receptor-1
Fibroblast growth factor-2; Nicotinic acetylcholine receptor agonist; (±)-Epibatidine; Brain-derived neurotrophic factor; Glial cell line-derived neurotrophic factor (Belluardo, N. (74) 98)

Fish
Northern blot; Neuropeptide; Feeding; Sex; Season (Peyon, P. (74) 190)

Flupenthixol
Schizophrenia; Glutamate; Gene expression; Multiprobe oligonucleotide solution hybridization; Antipsychotic drug (Chen, A.C.-H. (68) 14)

fos
Valproate; Transcription factor; AP-1; *jun*; Mania; Anticonvulsant (Chen, G. (64) 52)

Fos
Avoidance training; Jun; CREB; Gel shift; Hippocampus; Neocortex; Behavior (Lukasiuk, K. (67) 64)

c-Fos
Lithium; Valproate; CREB; Phosphorylation; c-Jun; Bipolar disorder (Chen, B. (70) 45)

Parietal cortex; DOI; 5-HT2A receptors; Immunohistochemistry; Double labeling (Maćkowiak, M. (71) 358)

Adenosine; Basal forebrain; In vivo microdialysis; AP1 binding; Sleep deprivation (Basheer, R. (73) 1)

Fos–lacZ
Kainic acid; Transgenic mice; Development; Glutamate signalling; Neurotoxicity (Vendrell, M. (63) 25)

Free radical
Neurosteroid; Antioxidant; Neuroprotection; Alzheimer's disease (Bastianetto, S. (66) 35)

Frog brain
Proprotein convertase; Proteolytic processing; In situ hybridization; Neuropeptides (Vieau, D. (63) 1)

Fusion protein
Immunocytochemistry; Autoradiography; 8-OH-DPAT; Autoinnervation; Limbic system; Hippocampus (Zhou, F.C. (69) 186)

Fyn kinase
Cultured neuron; NMDA receptor regulation; Phosphorylation; Ethanol; Csk kinase (Kalluri, H.S.G. (68) 159)

G

GABA
In situ hybridization; Neuronal plasticity; Barrel cortex; Vibrissae; AMPA (Gierdalski, M. (71) 111)

$GABA_{B2}$ protein; In situ hybridization; Rat CNS (Durkin, M.M. (71) 185)

$GABA_B$ receptor; Baclofen; Cerebellum; Receptor purification; Inhibitory amino acid receptor; CGP 62349 (Keir, M.J. (71) 279)

$GABA_{B2}$ protein
GABA; In situ hybridization; Rat CNS (Durkin, M.M. (71) 185)

$GABA_A$ receptor
Chronic ethanol; Anti-α_1 antibody; Immunoprecipitation; Radioligand binding (Mehta, A.K. (67) 194)

Development; In situ hybridisation; mRNA transport; Rat (Poulter, M.O. (69) 44)

$GABA_B$ receptor
cDNA clone; Brain-specific; Signal sequence (Makoff, A. (64) 137)

Lethargic mouse; Absence seizure; Voltage-gated calcium channel; β4 Subunit (Lin, F.-h. (71) 131)

GABA; Baclofen; Cerebellum; Receptor purification; Inhibitory amino acid receptor; CGP 62349 (Keir, M.J. (71) 279)

GAD
γ-Aminobutyric acid; Glutamic acid decarboxylase; Double in situ hybridization (Stone, D.J. (71) 201)

GADD45
Heat shock protein; MAP2; In situ hybridization; Autoradiography; Image-processing (Schmidt-Kastner, R. (63) 79)

gadd34
Calcium; Cortex; Endoplasmic reticulum; Hippocampus; Protein synthesis; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

Galanin
Restraint stress; Preprogalanin mRNA; Rat; CNS; Spontaneously hypertensive rat (Sweerts, B.W. (69) 113)

Galanin mRNA
Feeding; Ventromedial nucleus (Pu, S. (64) 85)

Gamma-aminobutyric acid
Gene expression; Promoter; Silencer; NRSE; Benzodiazepine (Mu, W. (67) 137)

Gene structure; Promoter; GA repeat; Microsatellite (Mu, W. (73) 171)

Ganglion cell
Inner ear; Hair cell; G-protein; Subunits, β and γ (Barritt, L.C. (68) 42)

GAP-43
mRNA stability; RNA-binding protein; Process outgrowth; PC12 cell (Neve, R.L. (65) 52)

Blot overlay; Brain spectrin; Cytoskeleton; Microtubule; Rat; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

GAP-43 / B-50
PKC; SPM; Circling training; Development; Rat striatum (Paratcha, G.C. (65) 34)

GA repeat
Gene structure; Promoter; Microsatellite; Gamma-aminobutyric acid (Mu, W. (73) 171)

GDNF
BDNF; Mesencephalic; Transmitter release; Synaptic protein; Fasciculation (Feng, L. (66) 62)

NGF; SNS/PN3; NaN; IB4; Dorsal root ganglia; Ion channel (Fjell, J. (67) 267)

Neurturin; GPI-linked receptor; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Development; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

Gel shift
Avoidance training; Fos; Jun; CREB; Hippocampus; Neocortex; Behavior (Lukasiuk, K. (67) 64)

Gel shift assay
APP; Beta-peptide; Gene regulation; Nuclear factor; Transcription (Lahiri, D.K. (71) 32)

Gene
Iron; Microglia; Neuron; Oligodendrocyte; Rat (Hansen, T.M. (65) 186)

Neurodegeneration; Transgenic mouse; Spatial learning; Alzheimer's disease; Amyloid precursor protein; Neurotoxicity; Cognition (Berger-Sweeney, J. (66) 150)

Hypoxia; Neuron; Cell death; Apoptosis (Banasiak, K.J. (72) 214)

Dopamine transporter; Human; Transcription regulation; *cis*-Regulatory element; Nurr1 (Sacchetti, P. (74) 167)

Gene delivery
Glucose transporter; Gene therapy; Post-transcription; Reporter gene (Boado, R.J. (63) 371)

Gene expression
Ischemia; Hypothermia; Neurotrophin; Brain; Protection (Boris-Möller, F. (63) 163)

Receptor, adrenergic, alpha; In situ hybridization; Messenger RNA; Lower urinary tract (Smith, M.S. (63) 254)

Jaundice; Hepatic encephalopathy (Follesa, P. (63) 268)

Promoter; Silencer; NRSE; Gamma-aminobutyric acid; Benzodiazepine (Mu, W. (67) 137)

Thyroid hormone; Actin; Protein kinase A; Phosphorylation (Sarkar, S. (67) 158)

Synapsin II; Transgenic mouse; Promoter; Transcription (Chin, L.-S. (67) 239)

Circadian rhythm; Suprachiasmatic nucleus; Immediate-early gene; *junB*, *fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a*,*d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Schizophrenia; Glutamate; Flupenthixol; Multiprobe oligonucleotide solution hybridization; Antipsychotic drug (Chen, A.C.-H. (68) 14)

Serotonin; Tryptophan hydroxylase; Pre-neuronal embryogenesis; ES cell; Pre-implantation embryo (Walther, D.J. (68) 55)

Neurotrophin-3; Phorbol ester; AP-1; Vascular smooth muscle cell; Reverse transcription-PCR (Nemoto, K. (68) 186)

Kappa opioid receptor; Transgenic mouse; Promoter; Embryo (Hu, X. (69) 35)

Nuclease protection assay; NMDA subunit (Goebel, D.J. (69) 164)

Differential display PCR; Lithium; Nitrogen permease regulator; Bipolar disorder (Wang, J.-F. (70) 66)

Excitotoxicity; Kainic acid (KA); Na^+/*myo*-inositol cotransporter; Organic osmolyte (Nonaka, M. (70) 179)

Heat shock protein; Hsp70; Hippocampus; Neuron; Glia (Krueger, A.M.R. (71) 265)

Neuropeptide Y; Neuropeptide Y receptor; Kindling; Epilepsy (Kopp, J. (72) 17)

Upstream binding element; Olfactory gene promoter; Nuclear Factor I; Olfactory receptor neuron; Mobility shift assay (Baumeister, H. (72) 65)

Cloning; μ-Opioid receptor; Bovine (Onoprishvili, I. (73) 129)

GDNF; Neurturin; GPI-linked receptor; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Development; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

Transgenic mice; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Gene family
Neuropeptide Y; Peptide YY; G-protein-coupled receptor; Microphysiometer; Zebrafish; Evolution; Chromosomal mapping (Starbäck, P. (70) 242)

Gene, fos
Cholinesterase inhibitor; In situ hybridization; Mice, transgenic; Photoreceptor, vertebrate (Broide, R.S. (71) 137)

Gene knock out
Islet amyloid polypeptide; Calcitonin gene-related peptide; Substance P; Dorsal root ganglion (DRG) neurons; Paw formalin test; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

Gene regulation
Cyclic AMP response element-binding protein; Transcription factor; Alternative splicing; Messenger RNA; Central nervous system (Pietruck, C. (69) 286)

APP; Beta-peptide; Gel shift assay; Nuclear factor; Transcription (Lahiri, D.K. (71) 32)

Thyroid hormone; Differential display; SWAP gene; Splicing (Cuadrado, A. (71) 332)

NMDA receptor; NRSF/REST; Neuron (Okamoto, S.-i. (74) 44)

Growth-associated protein B-50/GAP-43; Olfactory marker protein; Olfactory system; Transgenic mice; Neuronal differentiation (Holtmaat, A.J.G.D. (74) 197)

AP-2β; D_{1A} dopamine receptor; Silencer; Repressor; Differentiation (Takeuchi, S. (74) 208)

Gene structure
Neuron-specific splicing; REST; NRSF; XBR; Neuroblastoma (Palm, K. (72) 30)

Promoter; GA repeat; Microsatellite; Gamma-aminobutyric acid (Mu, W. (73) 171)

Gene therapy
Glucose transporter; Gene delivery; Post-transcription; Reporter gene (Boado, R.J. (63) 371)

Neurotensin receptor; Receptor-mediated endocytosis; Gene transfer; Transgenic animal (Martinez-Fong, D. (69) 249)

Gene transfer
Sindbis virus; Neuron; Glia; EGFP; *LacZ* (Gwag, B.J. (63) 53)

Adenovirus; Interleukin-1 receptor antagonist; Intercellular adhesion molecule-1; Ischemia; Mouse; Middle cerebral artery occlusion (Yang, G.-Y. (65) 143)

Adenovirus; Ca^{2+}-permeable AMPA receptor; PC12 cell; Hippocampal neuron; Glutamatergic synapse (Sudo, M. (65) 176)

NMDA receptor; Ca^{2+} permeability; Mg^{2+} block; Adenovirus; Hippocampal neuron; Postsynaptic receptor (Yamada, N. (68) 169)

Neurotensin receptor; Receptor-mediated endocytosis; Gene therapy; Transgenic animal (Martinez-Fong, D. (69) 249)

Genistein
Recombinant $GABA_A$ receptor; Protein tyrosine phosphorylation; Tyrosine kinase; Lavendustin A; Daidzein (Huang, R.-Q. (67) 177)

Genomic organization
Small GTP-binding protein; Rho subfamily; cDNA cloning; RNA blot hybridization; In situ hybridization; Chromosomal mapping (Nishi, M. (67) 74)

GFAP and GLUT3 mRNA
Cerebral ischemia; Astroglia; Neuronal death (Liu, D. (68) 29)

GFRα
Hypoglossal; Cell death; Axotomy; Regeneration (Tsujino, H. (70) 298)

GFRα-1 and GFRα-2
GDNF; Neurturin; GPI-linked receptor; Ret-tyrosine kinase; Development; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

GGF_2
NT-3; cAMP; cAMP-dependent protein kinase A; TGF-β1 (Cai, F. (71) 256)

Glaucoma
Myocilin; Brain; In situ hybridization (Swiderski, R.E. (68) 64)

Neural cell adhesion molecule; Human optic nerve; Reactive astrocyte; Lamina cribrosa (Ricard, C.S. (74) 69)

Gli
Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Glia
Sindbis virus; Gene transfer; Neuron; EGFP; *LacZ* (Gwag, B.J. (63) 53)

Heat shock protein; Hsp70; Hippocampus; Neuron; Gene expression (Krueger, A.M.R. (71) 265)

ATP-sensitive potassium channel; Neuron; In situ hybridization; Immunohistochemistry; Electron microscopy (Zhou, M. (74) 15)

Glial cell line-derived neurotrophic factor
Neurotrophin; cDNA; Promoter (Baecker, P.A. (69) 209)

Fibroblast growth factor-2; Nicotinic acetylcholine receptor agonist; (±)-Epibatidine; Brain-derived neurotrophic factor; Fibroblast growth factor receptor-1 (Belluardo, N. (74) 98)

Glial tumor
Somatostatin receptor; Glioma; Astrocyte; SST2 (Held-Feindt, J. (64) 101)

Glioma
Somatostatin receptor; Glial tumor; Astrocyte; SST2 (Held-Feindt, J. (64) 101)

Gliosis
Molecular cloning; CREB/ATF; In situ hybridization; Reactive astrocyte (Honma, Y. (69) 93)

Thymosin β_{10}; Kainic acid; Synaptic plasticity (Carpintero, P. (70) 141)

Global cerebral ischemia
Cardiac arrest; TUNEL staining; Immediate early gene; Mouse (Böttiger, B.W. (65) 135)

Globus pallidus
Enkephalin; 6-Hydroxydopamine; Dopamine antagonist (Schuller, J.J. (69) 149)

Glucocorticoid
Enkephalin; Hamster; Adrenal medulla; Striatum; Mifepristone (RU 486) (Jimenez, R. (66) 179)

Glucose-free
Basic fibroblast growth factor; Fibroblast growth factor receptor; Astrocyte; Serum-free; Glutamate (Liu, X. (71) 171)

Glucose metabolism
Glucose transport; Anaerobic glycolysis; Differential display (Niitsu, Y. (74) 26)

Glucose transport
Glucose metabolism; Anaerobic glycolysis; Differential display (Niitsu, Y. (74) 26)

Glucose transporter
Gene delivery; Gene therapy; Post-transcription; Reporter gene (Boado, R.J. (63) 371)

Ethanol; Rats; Behavioral dependence; Brain; Glycolysis (Eravci, M. (65) 103)

GluR1
Nucleus accumbens; Glutamate; NMDAR1; GluR2; mGluR5 (Lu, X.-Y. (63) 287)

GluR2
Nucleus accumbens; Glutamate; NMDAR1; GluR1; mGluR5 (Lu, X.-Y. (63) 287)

mGluR5
Nucleus accumbens; Glutamate; NMDAR1; GluR1; GluR2 (Lu, X.-Y. (63) 287)

Glutamate
Nucleus accumbens; NMDAR1; GluR1; GluR2; mGluR5 (Lu, X.-Y. (63) 287)

Protein kinase C; PKC isoform; Hippocampal neuron; Calcium; Cell nucleus (Buchner, K. (64) 222)

Schizophrenia; Gene expression; Flupenthixol; Multiprobe oligonucleotide solution hybridization; Antipsychotic drug (Chen, A.C.-H. (68) 14)

Aggressive behavior; In situ hybridization; γ-Aminobutyric acid; Medial hypothalamus; Immunocytochemistry; NK-1; Substance P (Yao, R. (71) 149)

Basic fibroblast growth factor; Fibroblast growth factor receptor; Astrocyte; Serum-free; Glucose-free (Liu, X. (71) 171)

Neuron; Apoptosis; Bcl-2; Caspase; Basic fibroblast growth factor (Liu, X. (71) 210)

Glutamate decarboxylase
Lethargic mouse; Absence seizure; γ-Aminobutyric acid (Lin, F.-H. (71) 127)

Glutamate homeostasis
Astrocyte; Oligodendrocyte; Progenitor cell (Domercq, M. (67) 296)

Glutamate receptor
AMPA receptor; RNA editing; Goldfish (Li, Z. (67) 211)

Oligodendrocyte; Deaminase; Rat; Bovine (De Zulueta, M.P. (73) 104)

Glutamate receptors
NMDA; Neostriatum; Interneurons; Cholinergic (Standaert, D.G. (64) 11)

Excitatory amino acid receptors; Receptor modulation; Receptor down-regulation; Osmotic regulation; Vasopressin; Magnocellular neuroendocrine cells (Currás-Collazo, M.C. (70) 187)

Glutamatergic synapse
Adenovirus; Gene transfer; Ca^{2+}-permeable AMPA receptor; PC12 cell; Hippocampal neuron (Sudo, M. (65) 176)

Glutamate signalling
Kainic acid; Fos–lacZ; Transgenic mice; Development; Neurotoxicity (Vendrell, M. (63) 25)

Glutamate transporter
Cerebellum; Purkinje cell; cDNA; Ligand-gated chloride channel (Lin, C.-L.G. (63) 174)

Glutamic acid decarboxylase
γ-Aminobutyric acid; GAD; Double in situ hybridization (Stone, D.J. (71) 201)

Glutathione
Alzheimer's disease; Cybrid; Heat shock factor; Oxidative stress; Reactive oxygen intermediate (Bijur, G.N. (71) 69)

Glut1 mRNA
Blood–brain barrier; Blood–retinal barrier; Glut3 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Glut3 mRNA
Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Glycine
Transporter; *Homo sapiens*; Sarcosine (Gallagher, M.J. (70) 101)

Glycolysis
Ethanol; Rats; Behavioral dependence; Brain; Glucose transporter (Eravci, M. (65) 103)

Glycosylation
Neuropeptide; Receptor; Anti-peptide antiserum; Rat brain; Immunochemistry (Hervieu, G. (71) 290)

cGMP
Brain capillary endothelial cell; Astrocyte; Nitric oxide; cGMP-dependent protein kinase; Vasodilator-stimulated phosphoprotein (Sporbert, A. (67) 258)

cGMP-dependent protein kinase
Brain capillary endothelial cell; Astrocyte; Nitric oxide; cGMP; Vasodilator-stimulated phosphoprotein (Sporbert, A. (67) 258)

Goldfish
Glutamate receptor; AMPA receptor; RNA editing (Li, Z. (67) 211)

GPCR
Receptor; Intronless; Pseudogene; Chromosome; Northern blot (Sawzdargo, M. (64) 193)

GPI-linked receptor
GDNF; Neurturin; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Development; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

G-protein
Phospholipase C; Alzheimer's disease (Young, R.A. (66) 188)

Inner ear; Hair cell; Ganglion cell; Subunits, β and γ (Barritt, L.C. (68) 42)

G protein
Morphine; Agonist; Substance abuse (Zhang, P. (72) 195)

G-protein activation
5-HT_{1A} receptor; 5-HT_{1B} receptor; Sumatriptan dimer; [^{35}S]GTPγS binding and autoradiography; Rat and guinea-pig brain (Dupuis, D.S. (67) 107)

G protein-coupled receptor
Degenerate PCR; Splice variant; Truncated receptor; Donor/acceptor site; HA epitope (Olsen, M.A. (64) 255)

CNS; In situ hybridization; Neuropeptide; Bombesin; Endothelin; Orphan receptor (Leng, N. (69) 73)

[^{32}P]-Protein phosphorylation; Two dimensional gel electrophoresis; Signal transduction; β-Adrenergic receptor; C6 glioma (Storm, S.M. (71) 50)

mRNA distribution; Ortholog (Lee, D.K. (71) 96)

G-protein-coupled receptor
Neuropeptide Y; Peptide YY; Microphysiometer; Zebrafish; Evolution; Gene family; Chromosomal mapping (Starbäck, P. (70) 242)

Granzyme K
Hypothalamus; Alternative initiation; In situ hybridization (Suemoto, T. (70) 273)

Growth-associated protein B-50/GAP-43
Olfactory marker protein; Olfactory system; Transgenic mice; Neuronal differentiation; Gene regulation (Holtmaat, A.J.G.D. (74) 197)

Growth factor
Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Growth hormone
Inhibin; Somatostatin; Growth hormone-releasing hormone; Hypothalamus (Carro, E. (66) 191)

Brain; Ischemia; Neurological; Stroke; Treatment (Scheepens, A. (68) 88)

Growth hormone-releasing hormone
Inhibin; Growth hormone; Somatostatin; Hypothalamus (Carro, E. (66) 191)

GTP-binding protein
Sphingosine 1-phosphate; Fibroblast growth factor-2; Early growth response-1; Pertussis toxin; Protein kinase C (Sato, K. (74) 182)

G-transducer protein
IgGs to Gα subunit; Transport of proteins across neural membrane; Protein kinase C activity; Antinociception (Garzón, J. (65) 151)

Guinea pig
Histamine receptor; Primary sensory neuron; Peptidergic neuron; In situ hybridization; Peripheral nerve injury (Kashiba, H. (66) 24)

Guinea-pig brain
CGRP receptor; CGRP-RCP; In situ hybridization; Oligonucleotide (Oliver, K.R. (66) 205)

Gustatory
Serotonin; Transporter; Taste bud; Vallate papilla; Immunocytochemistry (Ren, Y. (74) 221)

H

HA-966
NMDA receptor; Pharmacology; Efficacy; Affinity; DCK (Wood, M.W. (73) 188)

HA epitope
G protein-coupled receptor; Degenerate PCR; Splice variant; Truncated receptor; Donor/acceptor site (Olsen, M.A. (64) 255)

Hair cell
Inner ear; Ganglion cell; G-protein; Subunits, β and γ (Barritt, L.C. (68) 42)

Hamster
Enkephalin; Adrenal medulla; Striatum; Mifepristone (RU 486); Glucocorticoid (Jimenez, R. (66) 179)

Heat shock
Hsp25; Hypoxia; Motor neuron; Brainstem; Axonal transport (Murashov, A.K. (63) 14)

Heat shock factor
Alzheimer's disease; Cybrid; Glutathione; Oxidative stress; Reactive oxygen intermediate (Bijur, G.N. (71) 69)

Heat shock protein
GADD45; MAP2; In situ hybridization; Autoradiography; Image-processing (Schmidt-Kastner, R. (63) 79)

Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Stroke; Heme oxygenase; HSP70; Stress protein; Oxidative stress; Antioxidant (Turner, C.P. (65) 87)

Chaperone; Learning; Stress; Cerebellum; Synaptic plasticity (Ambrosini, M.V. (70) 164)

Hsp70; Hippocampus; Neuron; Glia; Gene expression (Krueger, A.M.R. (71) 265)

Heme-binding protein
Circadian rhythm; Melatonin; PCR select; Suppression subtractive hybridization (Zylka, M.J. (74) 175)

Heme oxygenase
Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Stroke; Heat shock protein; HSP70; Stress protein; Oxidative stress; Antioxidant (Turner, C.P. (65) 87)

Pineal; Nitric oxide; Nitric oxide synthase; Carbon monoxide; RT-PCR; Light/dark cycle (Jacobs, R.A. (70) 264)

Hemochromatosis
Hippocampus; In situ hybridization; Iron deficiency; Neurodegeneration; Transferrin (Moos, T. (72) 231)

Hepatic encephalopathy
Jaundice; Gene expression (Follesa, P. (63) 268)

Heteronuclear RNA
Corticotropin-releasing hormone; Vasopressin; Hypothalamic paraventricular nucleus; Stress (Ma, X.-M. (68) 129)

HIF-1α
Drosophila; HIF-1β; Anoxia (Ma, E. (73) 11)

HIF-1β
Drosophila; HIF-1α; Anoxia (Ma, E. (73) 11)

High SAPK activity
Stress-activated protein kinase/c-Jun N-terminal kinase; Brain expression; Immunohistochemistry; Subcellular localization (Lee, J.-K. (70) 116)

Hippocampal and cerebellar mossy fiber
PACAP-I-Receptor; In situ hybridization (Otto, C. (66) 163)

Hippocampal neuron
Protein kinase C; PKC isoform; Glutamate; Calcium; Cell nucleus (Buchner, K. (64) 222)

Adenovirus; Gene transfer; Ca^{2+}-permeable AMPA receptor; PC12 cell; Glutamatergic synapse (Sudo, M. (65) 176)

NMDA receptor; Ca^{2+} permeability; Mg^{2+} block; Adenovirus; Gene transfer; Postsynaptic receptor (Yamada, N. (68) 169)

Hippocampal neurons
CCAAT/enhancer binding proteins related activating transcription factor, C/ATF; cAMP; Activating transcription factor 4, ATF4; CREB binding protein/p300, CBP/p300 (Yukawa, K. (69) 124)

Hippocampus
Aging; Alzheimer's disease; Entorhinal cortex; In situ hybridisation; Nicotinic receptor (Terzano, S. (63) 72)

Calcium; Cortex; Endoplasmic reticulum; gadd34; Protein synthesis; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

Store-operated Ca^{2+} channel; *trp*; Thapsigargin (Mizuno, N. (64) 41)

NMDA receptor; Subunit; Protein; Development; Lead (Nihei, M.K. (66) 42)

Avoidance training; Fos; Jun; CREB; Gel shift; Neocortex; Behavior (Lukasiuk, K. (67) 64)

Acetylcholine; Antisense; In vivo dialysis; Muscarinic m_2 receptor; Alzheimer's disease (Kitaichi, K. (67) 98)

Amygdala; JNK; Plasticity (Brecht, S. (68) 101)

Kainic acid; Mossy fiber sprouting; Temporal lobe epilepsy; Transcription factor (Feng, Z. (69) 144)

Fusion protein; Immunocytochemistry; Autoradiography; 8-OH-DPAT; Autoinnervation; Limbic system (Zhou, F.C. (69) 186)

Arachidonic acid; Nicotinic ACh receptor; Protein kinase C; Synaptic transmission; Long-term potentiation (Nishizaki, T. (69) 263)

Alzheimer's disease; Apolipoprotein D; Apolipoprotein E; Astrocyte; Central nervous system; Lipocalin (Terrisse, L. (70) 26)

Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Cortex; Cerebellum (Gayle, D. (70) 92)

Serotonin receptor; Aged rat; Antidepressant (Yau, J.L.W. (70) 282)

Brain-derived neurotrophic factor; Diurnal; Promoter; Exon; Plasticity (Berchtold, N.C. (71) 11)

Heat shock protein; Hsp70; Neuron; Glia; Gene expression (Krueger, A.M.R. (71) 265)

Alcohol; NMDA receptor-splice variant; Nucleus accumbens; Competitive RT-PCR; Western blot analysis (Winkler, A. (72) 166)

Hemochromatosis; In situ hybridization; Iron deficiency; Neurodegeneration; Transferrin (Moos, T. (72) 231)

Eph receptor; Ephrin; Neural development; Trigeminal system; Corticospinal tract (Rogers, J.H. (74) 225)

Eph receptor; Corticospinal tract; Motor cortex; Purkinje cell (Ciossek, T. (74) 231)

Histamine receptor
Primary sensory neuron; Peptidergic neuron; In situ hybridization; Peripheral nerve injury; Guinea pig (Kashiba, H. (66) 24)

Histochemistry
p75; NGF; NT-3; Cross-species hybridization; *Monodelphis domestica* (Luque, J.M. (65) 129)

bHLH factor
tal-1; *tal-2*; In situ hybridization (Mori, S. (64) 199)

H_2O_2
Oligodendrocyte; Oxidative stress; p53; Subcellular localization; Suppressor gene; Oligodendroglia; Stress (Uberti, D. (65) 167)

Homeobox
NCAM; Promoter activity; Mouse; *Otx2* (Nguyen Ba-Charvet, K.T. (67) 292)

Homo sapiens
Glycine; Transporter; Sarcosine (Gallagher, M.J. (70) 101)

Hsp25
Hypoxia; Heat shock; Motor neuron; Brainstem; Axonal transport (Murashov, A.K. (63) 14)

HSP70
Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Stroke; Heme oxygenase; Heat shock protein; Stress protein; Oxidative stress; Anti-oxidant (Turner, C.P. (65) 87)

Hsp70
Heat shock protein; Hippocampus; Neuron; Glia; Gene expression (Krueger, A.M.R. (71) 265)

5-HT2A receptors
c-Fos; Parietal cortex; DOI; Immunohistochemistry; Double labeling (Maćkowiak, M. (71) 358)

5-HT_{1A} receptor
Transfected NIH-3T3 cell; *Xenopus laevis*; BrdU incorporation (Cappellini, C. (63) 380)

G-protein activation; 5-HT_{1B} receptor; Sumatriptan dimer; [^{35}S]GTPγS binding and autoradiography; Rat and guinea-pig brain (Dupuis, D.S. (67) 107)

5-HT_{1B} receptor
G-protein activation; 5-HT_{1A} receptor; Sumatriptan dimer; [^{35}S]GTPγS binding and autoradiography; Rat and guinea-pig brain (Dupuis, D.S. (67) 107)

5-HT_3 receptor
Polyclonal antibodies; Immunolabelling; Presynaptic; Ligand-gated ion channel; Serotonin (Spier, A.D. (67) 221)

Human
Parkinson's disease; Nitric oxide synthase; In situ hybridization; mRNA; Basal ganglia (Eve, D.J. (63) 62)

Dopamine transporter; Transcription regulation; *cis*-Regulatory element; Nurr1; Gene (Sacchetti, P. (74) 167)

Human brain
Nicotinic acetylcholine receptor; Alzheimer's disease; mRNA; RT-PCR (Hellström-Lindahl, E. (66) 94)

Cocaine; Reverse transcription; Polymerase chain reaction; mRNA; Cocaine delirium (Chen, L. (73) 180)

Human optic nerve
Neural cell adhesion molecule; Reactive astrocyte; Lamina cribrosa; Glaucoma (Ricard, C.S. (74) 69)

Huntington's disease
Trinucleotide repeat; Phage-displayed peptide libraries; Langerhans cells and brain (Wilkinson, F.L. (69) 10)

Hydrogen peroxide
Alzheimer's disease; Aβ; Calcium; PC12; A23187 (McKeon-O'Malley, C. (72) 103)

Trisomy-16 mouse; Down's syndrome; Astrocyte; Embryonic primary culture; Activator protein-1; C-jun (Scortegagna, M. (73) 144)

6-Hydroxydopamine
Neuronal death; Cerebellar granule cell; Apoptosis; Caspase; Cytochrome *c*; Parkinson's disease (Dodel, R.C. (64) 141)

Basic fibroblast growth factor; Immunohistochemistry; Neural transplantation; Transforming growth factor beta 2; Ventral mesencephalon (Sommer, C. (69) 53)

Globus pallidus; Enkephalin; Dopamine antagonist (Schuller, J.J. (69) 149)

5-hydroxytryptamine
Testosterone; Estrogen; Serotonin transporter; Dorsal raphe nucleus (McQueen, J.K. (63) 241)

5-Hydroxytryptamine$_{2A}$ receptor
Serotonin transporter; Estradiol-17β; Tamoxifen; Estradiol receptor (Sumner, B.E.H. (73) 119)

Hyperphosphorylation
Mitogen-activated protein kinase; Amyloid precursor protein; Tau; Alzheimer's disease (Grant, S.M. (72) 115)

Hypertension
Spontaneously hypertensive rats; Sympathetic nerve activity; c-*fos*; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Hypocretin
Immunohistochemistry; In situ hybridization histochemistry; Neuropeptide Y; Obese; Orexin (Yamamoto, Y. (65) 14)

Hypoglossal
GFRα; Cell death; Axotomy; Regeneration (Tsujino, H. (70) 298)

Hypoglossal nerve
Rat; EST; Nerve regeneration; Nerve injury (Tanabe, K. (64) 34)

Hypoglossal nerve regeneration
Isopentenyl diphosphate isomerase; Brain development; Rat cerebral cortex; Differential display screening; Myelination (Morihara, T. (67) 231)

Hypothalamic paraventricular nucleus
Corticotropin-releasing hormone; Vasopressin; Heteronuclear RNA; Stress (Ma, X.-M. (68) 129)

Hypothalamus
Estrogen; Progestin; Macaque; Serotonin receptor (Gundlah, C. (63) 325)

Inhibin; Growth hormone; Somatostatin; Growth hormone-releasing hormone (Carro, E. (66) 191)

Testosterone; Estrogen; Menopause; Reproduction (Danzer, S.C. (66) 200)

Opioid receptor; Enkephalin; Knockout; Amygdala; Autoradiography (Brady, L.S. (68) 193)

Menopause; Luteinizing hormone; Estrogen; β-Endorphin; Aging; Proopiomelanocortin (Abel, T.W. (69) 202)

Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Granzyme K; Alternative initiation; In situ hybridization (Suemoto, T. (70) 273)

Insulin receptor substrate family; Tyrosine kinase substrate; In situ hybridization (Numan, S. (72) 97)

Calbindin; Development; Rat; mRNA (Stuart, E. (73) 60)

Hypothermia
Ischemia; Neurotrophin; Gene expression; Brain; Protection (Boris-Möller, F. (63) 163)

Vascular endothelial growth factor; Permeability; Hypoxia; Endothelial cell (Fischer, S. (74) 135)

Hypoxia
Hsp25; Heat shock; Motor neuron; Brainstem; Axonal transport (Murashov, A.K. (63) 14)

Cultured neuron; Developing rat brain; Apoptosis; Transcription factor; c-Jun N-terminal kinase (Chihab, R. (63) 105)

Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Brain microvessel; Retinal microvasculature; Capillary density; VEGF (Badr, G.A. (64) 24)

Neuron; Cell death; Apoptosis; Gene (Banasiak, K.J. (72) 214)

Hypothermia; Vascular endothelial growth factor; Permeability; Endothelial cell (Fischer, S. (74) 135)

Hypoxia / reoxygenation
Cultured brain neurons; Apoptosis; Caspase-3 induction; PARP cleavage; Caspase inhibitors; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

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IB4
GDNF; NGF; SNS/PN3; NaN; Dorsal root ganglia; Ion channel (Fjell, J. (67) 267)

Ibogaine
Egr-1; C-*fos*; Early gene expression; Neurotoxicity (Ali, S.F. (74) 237)

ICE
Neurotrauma; iNOS; IL-1β; mRNA expression; Immunoreactivity (Knerlich, F. (68) 73)

IGF mRNA
Somatomedin; Neurotrophic factor; Nerve regeneration; Neuromuscular junction (Pu, S.-F. (63) 207)

IgGs to Gα subunit
G-transducer protein; Transport of proteins across neural membrane; Protein kinase C activity; Antinociception (Garzón, J. (65) 151)

IκBα
Neurodegeneration; Oxidative stress; Excitotoxicity; NMDA receptor; c-Myc; p53 (Nakai, M. (64) 59)

IL-11
CT-1; Soluble receptor; Neurotrophic; Neuropoietic cytokine; Sensory neuron (Thier, M. (64) 80)

IL-1β
Neurotrauma; iNOS; ICE; mRNA expression; Immunoreactivity (Knerlich, F. (68) 73)

IL-18, lipopolysaccharide
Interleukin 18; Interleukin-1β converting enzyme; Microglia; Astrocyte; BV2, brain (Conti, B. (67) 46)

IL-3 receptor β
Microglia; Cell culture; Brain region; Differential mRNA expression; Inflammation; CD4; TNF-α; Fcγ receptor II (Ren, L.-q. (65) 198)

Image-processing
Heat shock protein; GADD45; MAP2; In situ hybridization; Autoradiography (Schmidt-Kastner, R. (63) 79)

Immediate early
Brn-3; POU domain; Neurotrophin; NGFI-A (Smith, M.D. (74) 117)

Immediate early gene
Neuronal plasticity; Visual development; Visual pathway (Mower, G.D. (64) 264)

Global cerebral ischemia; Cardiac arrest; TUNEL staining; Mouse (Böttiger, B.W. (65) 135)

Diffuse axonal injury; Antisense targeting; Retrograde labeling (Kreutz, M.R. (69) 232)

Immediate-early gene
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; *junB, fosB; NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Immobilization
Corticotropin-releasing hormone; Proopiomelanocortin; Messenger RNA; Repeated stress; Adaptation (Škultétyová, I. (68) 190)

Immune system
Interleukin; Intracerebroventricular; Aging; Nervous system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Immunochemistry
Neuropeptide; Receptor; Glycosylation; Antipeptide antiserum; Rat brain (Hervieu, G. (71) 290)

Immunocyte
ACTH; Leech; MSH; Anandamide; Morphine; POMC; Nitric oxide (Stefano, G.B. (63) 340)

Immunocytochemistry
Estrogen; Striatum; Development; Aromatase; RT-PCR (Küppers, E. (63) 184)

Fusion protein; Autoradiography; 8-OH-DPAT; Autoinnervation; Limbic system; Hippocampus (Zhou, F.C. (69) 186)

Aggressive behavior; In situ hybridization; γ-Aminobutyric acid; Glutamate; Medial hypothalamus; NK-1; Substance P (Yao, R. (71) 149)

Serotonin; Transporter; Gustatory; Taste bud; Vallate papilla (Ren, Y. (74) 221)

Immunohistochemistry
Hypocretin; In situ hybridization histochemistry; Neuropeptide Y; Obese; Orexin (Yamamoto, Y. (65) 14)

SAPK/JNK; SEK1; In situ hybridization; MAP kinase; Apoptosis (Lee, J.-K. (66) 133)

Aging; In situ hybridization; Neurotrophin receptor; Behavior (Johnson, H. (69) 21)

Basic fibroblast growth factor; 6-Hydroxydopamine; Neural transplantation; Transforming growth factor beta 2; Ventral mesencephalon (Sommer, C. (69) 53)

Stress-activated protein kinase/c-Jun N-terminal kinase; Brain expression; Subcellular localization; High SAPK activity (Lee, J.-K. (70) 116)

c-Fos; Parietal cortex; DOI; 5-HT2A receptors; Double labeling (Maćkowiak, M. (71) 358)

Neural tissue-specific gene; Dendrite; Outgrowth (Shinozaki, K. (71) 364)

ATP-sensitive potassium channel; Neuron; Glia; In situ hybridization; Electron microscopy (Zhou, M. (74) 15)

Immunolabelling
5-HT_3 receptor; Polyclonal antibodies; Presynaptic; Ligand-gated ion channel; Serotonin (Spier, A.D. (67) 221)

Immunoprecipitation
Chronic ethanol; $GABA_A$ receptor; Anti-α_1 antibody; Radioligand binding (Mehta, A.K. (67) 194)

Immunoreactivity
Neurotrauma; iNOS; ICE; IL-1β; mRNA expression (Knerlich, F. (68) 73)

Inflammation
Microglia; Cell culture; Brain region; Differential mRNA expression; CD4; TNF-α; Fcγ receptor II; IL-3 receptor β (Ren, L.-q. (65) 198)

Brain; Chemokine; Ischemia (Wang, X. (71) 304)

Inhibin
Growth hormone; Somatostatin; Growth hormone-releasing hormone; Hypothalamus (Carro, E. (66) 191)

Inhibitory amino acid receptor
GABA; $GABA_B$ receptor; Baclofen; Cerebellum; Receptor purification; CGP 62349 (Keir, M.J. (71) 279)

Inner ear
Hair cell; Ganglion cell; G-protein; Subunits, β and γ (Barritt, L.C. (68) 42)

In situ
Urocortin; Neuropeptide; CRF-binding protien; mRNA (Cepoi, D. (68) 109)

In situ hybridisation
Aging; Alzheimer's disease; Entorhinal cortex; Hippocampus; Nicotinic receptor (Terzano, S. (63) 72)

PACAP mRNA; Brain development; Neurotrophic factor (Skoglösa, Y. (65) 1)

Development; $GABA_A$ receptor; mRNA transport; Rat (Poulter, M.O. (69) 44)

In situ hybridization
Proprotein convertase; Proteolytic processing; Neuropeptides; Frog brain (Vieau, D. (63) 1)

Parkinson's disease; Nitric oxide synthase; mRNA; Human; Basal ganglia (Eve, D.J. (63) 62)

Heat shock protein; GADD45; MAP2; Autoradiography; Image-processing (Schmidt-Kastner, R. (63) 79)

Drosophila; Anoxia; Differential display; *fau* (Ma, E. (63) 217)

Novel gene; C1q-like; Motor function; Brain (Bérubé, N.G. (63) 233)

Receptor, adrenergic, alpha; Gene expression; Messenger RNA; Lower urinary tract (Smith, M.S. (63) 254)

Central nervous system; *nm23*; Mouse; Northern blot; Nucleoside diphosphate kinase (Dabernat, S. (63) 351)

Aldolase C mRNA; c-*fos* mRNA expression; Cerebellum; Dopamine; Methamphetamine (Hamamura, M. (64) 119)

Angiotensin; Oligodeoxynucleotide; Rostrocaudal pattern; Core region (Barth, S.W. (64) 151)

bHLH factor; *tal-1*; *tal-2* (Mori, S. (64) 199)

Neurotensin receptor; Mouse embryonal development (Hermans-Borgmeyer, I. (65) 216)

Histamine receptor; Primary sensory neuron; Peptidergic neuron; Peripheral nerve injury; Guinea pig (Kashiba, H. (66) 24)

SAPK/JNK; SEK1; Immunohistochemistry; MAP kinase; Apoptosis (Lee, J.-K. (66) 133)

Brain-specific serine protease; Motopsin; Motor neuron; Mouse (Iijima, N. (66) 141)

PACAP-I-Receptor; Hippocampal and cerebellar mossy fiber (Otto, C. (66) 163)

Dri 42; Phosphatidic acid phosphatase; Ventricular germinal zone; Bergmann glia (Suzuki, R. (66) 195)

Guinea-pig brain; CGRP receptor; CGRP-RCP; Oligonucleotide (Oliver, K.R. (66) 205)

Small GTP-binding protein; Rho subfamily; cDNA cloning; RNA blot hybridization; Genomic organization; Chromosomal mapping (Nishi, M. (67) 74)

Superior cervical ganglion; Norepinephrine transporter; Serotonin transporter (Nishimura, M. (67) 82)

Glaucoma; Myocilin; Brain (Swiderski, R.E. (68) 64)

Bdm1; Brain development; cDNA cloning; mRNA expression (Yamauchi, Y. (68) 149)

Aging; Immunohistochemistry; Neurotrophin receptor; Behavior (Johnson, H. (69) 21)

G protein-coupled receptor; CNS; Neuropeptide; Bombesin; Endothelin; Orphan receptor (Leng, N. (69) 73)

Gliosis; Molecular cloning; CREB/ATF; Reactive astrocyte (Honma, Y. (69) 93)

Rho GTPase; Brain; Development (Olenik, C. (70) 9)

Basal ganglia; Parkinson's disease; Serotonin receptor; Dopamine receptor; Substance P (Gresch, P.J. (70) 125)

Axotomy; Facial nucleus; Motoneuron; Oxytocin receptor; Vasopressin receptor (Chritin, M. (70) 210)

Brain; Arginine; Nitric oxide; System y^+; Arginase; Argininosuccinate (Braissant, O. (70) 231)

Granzyme K; Hypothalamus; Alternative initiation (Suemoto, T. (70) 273)

Adenosine; Adenosine transport; ENT2; *Ei* nucleoside transporter; RT-PCR; Nitrobenzylthioinosine (Anderson, C.M. (70) 293)

Pineal gland; Melatonin; *N*-Acetyltransferase; AA-NAT; Syrian hamster (Gauer, F. (71) 87)

Neuronal plasticity; Barrel cortex; Vibrissae; GABA; AMPA (Gierdalski, M. (71) 111)

Cholinesterase inhibitor; Gene, fos; Mice, transgenic; Photoreceptor, vertebrate (Broide, R.S. (71) 137)

Aggressive behavior; γ-Aminobutyric acid; Glutamate; Medial hypothalamus; Immunocytochemistry; NK-1; Substance P (Yao, R. (71) 149)

GABA; $GABA_{B2}$ protein; Rat CNS (Durkin, M.M. (71) 185)

PACAP; Neuropeptide; Sequence; Chicken brain (Peeters, K. (71) 244)

MDMA; LSD; THC; Cocaine; Morphine; C-fos (Erdtmann-Vourliotis, M. (71) 313)

Suprachiasmatic nucleus; Reticular thalamic nucleus; γ-Aminobutyric acid; Circadian rhythm (Duncan, M.J. (71) 325)

Substantia nigra; Brain-derived neurotrophic factor; Kainic acid; Exon regulation; RT-PCR (Aliaga, E. (71) 341)

Morphine; Sensitization; Dorsal striatum; C-*fos*; Retrograde tracing (Erdtmann-Vourliotis, M. (72) 1)

Insulin receptor substrate family; Hypothalamus; Tyrosine kinase substrate (Numan, S. (72) 97)

Antisense; Adenosine; Striatum; Corticostriatal; Receptor autoradiography (Phan, T.A. (72) 226)

Hemochromatosis; Hippocampus; Iron deficiency; Neurodegeneration; Transferrin (Moos, T. (72) 231)

ATP-sensitive potassium channel; Neuron; Glia; Immunohistochemistry; Electron microscopy (Zhou, M. (74) 15)

Calmodulin gene expression; Water deprivation; Supraoptic nucleus; Paraventricular hypothalamic nucleus; Rat (Palfi, A. (74) 111)

Affective disorder; mRNA; Estrogen; Limbic system (Österlund, M.K. (74) 158)

In situ hybridization histochemistry
Circadian rhythm; Vasoactive intestinal polypeptide; VPAC2 receptor; Rat (Shinohara, K. (63) 262)

Synaptojanin; Synapse; Endocytosis; Brain; Rat (Kudo, M. (64) 179)

Hypocretin; Immunohistochemistry; Neuropeptide Y; Obese; Orexin (Yamamoto, Y. (65) 14)

GDNF; Neurturin; GPI-linked receptor; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Development; Gene expression (Burazin, T.C.D. (73) 151)

In situ RT-PCR
Trk receptor; Tyrosine kinase; Taste; NGF; BDNF; NT-3; NT-4 (Cho, T.T. (68) 1)

Insulin-like growth factor binding protein
Megalencephaly; Megencephaly mutant mouse; *mceph / mceph*; Brain; mRNA in situ hybridization (Petersson, S. (72) 80)

Insulin receptor substrate family
Hypothalamus; Tyrosine kinase substrate; In situ hybridization (Numan, S. (72) 97)

Intercellular adhesion molecule-1
Adenovirus; Gene transfer; Interleukin-1 receptor antagonist; Ischemia; Mouse; Middle cerebral artery occlusion (Yang, G.-Y. (65) 143)

Interferon-gamma
Myc; Oncogene; Astrocyte (Rubio, N. (71) 104)

Interleukin
Intracerebroventricular; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Opiate; Molluscan; Neural; μ Opiate receptor transcript (Cadet, P. (74) 242)

Interleukin-15
Brain macrophages; Single-cell RT-PCR; Alternative splicing (Prinz, M. (63) 155)

Interleukin 18
IL-18, lipopolysaccharide; Interleukin-1β converting enzyme; Microglia; Astrocyte; BV2, brain (Conti, B. (67) 46)

Interleukin-1
Adenovirus; Blood–brain barrier; Ischemia; Mouse; Intracellular adhesion molecule-1; Temporary (Yang, G.-Y. (72) 129)

Interleukin-1β converting enzyme
Interleukin 18; IL-18, lipopolysaccharide; Microglia; Astrocyte; BV2, brain (Conti, B. (67) 46)

Interleukin-1 receptor antagonist
Adenovirus; Gene transfer; Intercellular adhesion molecule-1; Ischemia; Mouse; Middle cerebral artery occlusion (Yang, G.-Y. (65) 143)

Intermediate filament
α-Internexin; NF-L; Knockout mice; Optic nerve (Levavasseur, F. (69) 104)

Interneurons
NMDA; Glutamate receptors; Neostriatum; Cholinergic (Standaert, D.G. (64) 11)

α-Internexin
NF-L; Intermediate filament; Knockout mice; Optic nerve (Levavasseur, F. (69) 104)

Intracellular adhesion molecule-1
Adenovirus; Blood–brain barrier; Ischemia; Mouse; Interleukin-1; Temporary (Yang, G.-Y. (72) 129)

Intracerebral hemorrhage
Subarachnoid hemorrhage; Vasospasm; Stroke; Heme oxygenase; Heat shock protein; HSP70; Stress protein; Oxidative stress; Anti-oxidant (Turner, C.P. (65) 87)

Intracerebral injection
Antisense oligonucleotide; Phosphorothioate; c-*fos* induction; Confocal microscopy (Grzanna, R. (63) 35)

Intracerebroventricular
Interleukin; Aging; Nervous system; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Intronless
Receptor; GPCR; Pseudogene; Chromosome; Northern blot (Sawzdargo, M. (64) 193)

In vivo dialysis
Acetylcholine; Antisense; Hippocampus; Muscarinic m_2 receptor; Alzheimer's disease (Kitaichi, K. (67) 98)

In vivo microdialysis
Adenosine; Basal forebrain; c-Fos; AP1 binding; Sleep deprivation (Basheer, R. (73) 1)

Iodopsin
Photoreceptor; Circadian rhythm; *Clock*; *rd* chicken; Phototransduction (Larkin, P. (70) 253)

Ion channel
P2X receptor; $P2X_4$; Alternative splicing; ATP; Oocyte (Townsend-Nicholson, A. (64) 246)

GDNF; NGF; SNS/PN3; NaN; IB4; Dorsal root ganglia (Fjell, J. (67) 267)

Ionizing radiation
Apoptosis; Dentate gyrus; Cell proliferation; TUNEL; Ki-67; NeuN (Peißner, W. (71) 61)

IPSC
Patch clamp; Single channel; Deactivation; Alpha-5 subtype (Burgard, E.C. (73) 28)

Iron
Gene; Microglia; Neuron; Oligodendrocyte; Rat (Hansen, T.M. (65) 186)

Lactoferrin; MPTP; Neurodegenerative disorder; Oxidative stress (Fillebeen, C. (72) 183)

Iron deficiency
Hemochromatosis; Hippocampus; In situ hybridization; Neurodegeneration; Transferrin (Moos, T. (72) 231)

Ischemia
NF-κB; Stroke; Transcription factor; Electrophoretic mobility shift assay (Zhang, S. (63) 121)

Hypothermia; Neurotrophin; Gene expression; Brain; Protection (Boris-Möller, F. (63) 163)

c-Jun; Programmed cell death; Okadaic acid (Walton, M. (63) 198)

Blood–brain barrier; Cerebral blood flow; Mouse; Middle cerebral artery occlusion; Reperfusion (Mao, Y. (63) 366)

Adenovirus; Gene transfer; Interleukin-1 receptor antagonist; Intercellular adhesion molecule-1; Mouse; Middle cerebral artery occlusion (Yang, G.-Y. (65) 143)

Brain; Neurological; Growth hormone; Stroke; Treatment (Scheepens, A. (68) 88)

Blood–brain barrier; Middle cerebral artery occlusion; Reperfusion; Temporary; Tumor necrosis factor-alpha (Yang, G.-Y. (69) 135)

PAC1-R; p53; Zac; Apoptosis; Differentiation (Ciani, E. (69) 290)

Brain; Chemokine; Inflammation (Wang, X. (71) 304)

Adenovirus; Blood–brain barrier; Mouse; Intracellular adhesion molecule-1; Interleukin-1; Temporary (Yang, G.-Y. (72) 129)

Ischemic preconditioning
Rat; p53; $p21^{WAF1/Cip1}$; PAG608/Wig-1; DNA damage (Tomasevic, G. (70) 304)

Islet amyloid polypeptide
Calcitonin gene-related peptide; Substance P; Gene knock out; Dorsal root ganglion (DRG) neurons; Paw formalin test; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

Isoform
Dementia; Tau protein; Mammalian phylogeny; Two-dimensional gel electrophoresis (Janke, C. (68) 119)

CaM kinase; Expression; Mouse; Targeting (Bayer, K.-U. (70) 147)

Isopentenyl diphosphate isomerase
Hypoglossal nerve regeneration; Brain development; Rat cerebral cortex; Differential display screening; Myelination (Morihara, T. (67) 231)

J

Jaundice
Hepatic encephalopathy; Gene expression (Follesa, P. (63) 268)

JIP-1
JNK; c-Jun; PAG608; p53; Cerebral ischemia (Gillardon, F. (73) 138)

JNK
Amygdala; Hippocampus; Plasticity (Brecht, S. (68) 101)

JIP-1; c-Jun; PAG608; p53; Cerebral ischemia (Gillardon, F. (73) 138)

jun
Valproate; Transcription factor; AP-1; *fos*; Mania; Anticonvulsant (Chen, G. (64) 52)

Jun
Avoidance training; Fos; CREB; Gel shift; Hippocampus; Neocortex; Behavior (Lukasiuk, K. (67) 64)

c-Jun
Ischemia; Programmed cell death; Okadaic acid (Walton, M. (63) 198)

Okadaic acid; Alzheimer's disease; CREB; PC12 cell; AP-1 (Woodgate, A. (66) 211)

Stress-activated kinase; Tau (Kumagae, Y. (67) 10)

Cell death; Apoptosis; Epilepsy; Caspase; Nitric oxide (Becker, A.J. (67) 172)

Lithium; Valproate; CREB; Phosphorylation; c-Fos; Bipolar disorder (Chen, B. (70) 45)

JNK; JIP-1; PAG608; p53; Cerebral ischemia (Gillardon, F. (73) 138)

c-Jun N-terminal kinase
Hypoxia; Cultured neuron; Developing rat brain; Apoptosis; Transcription factor (Chihab, R. (63) 105)

K

Kainic acid
Fos–lacZ; Transgenic mice; Development; Glutamate signalling; Neurotoxicity (Vendrell, M. (63) 25)

Seizure; p53; DNA-binding; Neuronal apoptosis; Cycloheximide (Liu, W. (63) 248)

Hippocampus; Mossy fiber sprouting; Temporal lobe epilepsy; Transcription factor (Feng, Z. (69) 144)

A170; MSP23; Oxidative stress; Excitotoxicity; Stress response; Stress protein (Nakaso, K. (69) 155)

Thymosin β_{10}; Gliosis; Synaptic plasticity (Carpintero, P. (70) 141)

Substantia nigra; Brain-derived neurotrophic factor; Exon regulation; In situ hybridization; RT-PCR (Aliaga, E. (71) 341)

Kainic acid (KA)
Excitotoxicity; Gene expression; Na^+/*myo*-inositol cotransporter; Organic osmolyte (Nonaka, M. (70) 179)

Kappa opioid receptor
Morphine; Preprodynorphin; Preproenkephalin (Wang, X.-M. (66) 184)

Transgenic mouse; Gene expression; Promoter; Embryo (Hu, X. (69) 35)

KDEL protein
Calreticulin; Calcium; NG108-15 cell (Xiao, G. (72) 121)

Ki-67
Apoptosis; Ionizing radiation; Dentate gyrus; Cell proliferation; TUNEL; NeuN (Peißner, W. (71) 61)

Kindling
Neuropeptide Y; Neuropeptide Y receptor; Gene expression; Epilepsy (Kopp, J. (72) 17)

Knockout
Opioid receptor; Enkephalin; Amygdala; Hypothalamus; Autoradiography (Brady, L.S. (68) 193)

Knockout mice
α-Internexin; NF-L; Intermediate filament; Optic nerve (Levavasseur, F. (69) 104)

Kv1
Patch-clamp; Single-cell RT-PCR; Kv2; Pharmacology (Seifert, G. (74) 55)

Kv2
Patch-clamp; Single-cell RT-PCR; Kv1; Pharmacology (Seifert, G. (74) 55)

Kyotorphin
Substance P; Nociceptor endings (Inoue, M. (69) 302)

L

Lactacystin
Stimulus-transcription coupling; Receptor; Cycloheximide; Ascorbic acid; Catecholamine (Schmidt, J. (73) 50)

Lactoferrin
Iron; MPTP; Neurodegenerative disorder; Oxidative stress (Fillebeen, C. (72) 183)

LacZ
Sindbis virus; Gene transfer; Neuron; Glia; EGFP (Gwag, B.J. (63) 53)

Lamina cribrosa
Neural cell adhesion molecule; Human optic nerve; Reactive astrocyte; Glaucoma (Ricard, C.S. (74) 69)

Langerhans cells and brain
Huntington's disease; Trinucleotide repeat; Phage-displayed peptide libraries (Wilkinson, F.L. (69) 10)

Lateral wall
Serotonin receptor; Cochlea; Organ of Corti; Spiral ganglion (Oh, C.K. (70) 135)

Lavendustin A
Recombinant $GABA_A$ receptor; Protein tyrosine phosphorylation; Tyrosine kinase; Genistein; Daidzein (Huang, R.-Q. (67) 177)

Lead
NMDA receptor; Subunit; Protein; Hippocampus; Development (Nihei, M.K. (66) 42)

Learning
Heat shock protein; Chaperone; Stress; Cerebellum; Synaptic plasticity (Ambrosini, M.V. (70) 164)

Synaptic plasticity; Long term depression (Napolitano, M. (72) 89)

Leech
ACTH; MSH; Anandamide; Morphine; POMC; Immunocyte; Nitric oxide (Stefano, G.B. (63) 340)

Lethargic (*lh/lh*) mouse
Absence seizure; Voltage-dependent calcium channel; β4 Subunit; β3 Subunit; P/Q channel (Lin, F.-h. (71) 1)

Lethargic mouse
Absence seizure; Glutamate decarboxylase; γ-Aminobutyric acid (Lin, F.-H. (71) 127)

Absence seizure; $GABA_B$ receptor; Voltage-gated calcium channel; β4 Subunit (Lin, F.-h. (71) 131)

Ligand-gated chloride channel
Glutamate transporter; Cerebellum; Purkinje cell; cDNA (Lin, C.-L.G. (63) 174)

Ligand-gated ion channel
$5\text{-}HT_3$ receptor; Polyclonal antibodies; Immunolabelling; Presynaptic; Serotonin (Spier, A.D. (67) 221)

Light
Circadian rhythm; Suprachiasmatic nucleus; *Clock*; *BMAL1*; *per* (Abe, H. (66) 104)

Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB*, *fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a*,*d*]cyclohepten-5,10-imine maleate); Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Light/dark cycle
Pineal; Nitric oxide; Nitric oxide synthase; Heme oxygenase; Carbon monoxide; RT-PCR (Jacobs, R.A. (70) 264)

Limbic system
Non-coding RNA; Repetitive sequence; Neural differentiation (Komine, Y. (66) 1)

Fusion protein; Immunocytochemistry; Autoradiography; 8-OH-DPAT; Autoinnervation; Hippocampus (Zhou, F.C. (69) 186)

Affective disorder; mRNA; Estrogen; In situ hybridization (Österlund, M.K. (74) 158)

Lipocalin
Alzheimer's disease; Apolipoprotein D; Apolipoprotein E; Astrocyte; Central nervous system; Hippocampus (Terrisse, L. (70) 26)

Lithium
Valproate; CREB; Phosphorylation; c-Fos; c-Jun; Bipolar disorder (Chen, B. (70) 45)

Differential display PCR; Nitrogen permease regulator; Bipolar disorder; Gene expression (Wang, J.-F. (70) 66)

Bipolar disorder; Valproate; Carbamazepine; Phosphoinositide (Pacheco, M.A. (72) 138)

Liver
Circadian photoreceptor; Molecular clock; Testis; Phase shift (Miyamoto, Y. (71) 238)

Local protein synthesis
mRNA; Dendrite; Postsynaptic density; Synaptic plasticity (Tian, Q.B. (72) 147)

Long term depression
Synaptic plasticity; Learning (Napolitano, M. (72) 89)

Long-term potentiation
Arachidonic acid; Nicotinic ACh receptor; Protein kinase C; Synaptic transmission; Hippocampus (Nishizaki, T. (69) 263)

Lower urinary tract
Receptor, adrenergic, alpha; Gene expression; In situ hybridization; Messenger RNA (Smith, M.S. (63) 254)

LSD
MDMA; THC; Cocaine; Morphine; C-fos; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

Luteinizing hormone
Menopause; Hypothalamus; Estrogen; β-Endorphin; Aging; Proopiomelanocortin (Abel, T.W. (69) 202)

M

Macaque
Estrogen; Progestin; Serotonin receptor; Hypothalamus (Gundlah, C. (63) 325)

Magnocellular neuroendocrine cells
Excitatory amino acid receptors; Glutamate receptors; Receptor modulation; Receptor down-regulation; Osmotic regulation; Vasopressin (Currás-Collazo, M.C. (70) 187)

Mammalian phylogeny
Dementia; Tau protein; Isoform; Two-dimensional gel electrophoresis (Janke, C. (68) 119)

Manganese
Microglia; Nitric oxide; Parkinson's disease; Neurotoxicity (Chang, J.Y. (68) 22)

Mania
Valproate; Transcription factor; AP-1; *jun*; *fos*; Anticonvulsant (Chen, G. (64) 52)

MAP2
Heat shock protein; GADD45; In situ hybridization; Autoradiography; Image-processing (Schmidt-Kastner, R. (63) 79)

MAPK
Oligodendrocyte; AMPA receptor; c-*fos* (Liu, H.-N. (66) 50)

Neurofilament; Phosphorylation; Calcium channel; Depolarization; PC12 cell (Li, B.-S. (70) 84)

MAP kinase
SAPK/JNK; SEK1; Immunohistochemistry; In situ hybridization; Apoptosis (Lee, J.-K. (66) 133)

ARIA; Transcription; Synapse; Acetylcholine receptor (Si, J. (67) 18)

mceph/mceph
Megalencephaly; Megencephaly mutant mouse; Insulin-like growth factor binding protein; Brain; mRNA in situ hybridization (Petersson, S. (72) 80)

MDMA
LSD; THC; Cocaine; Morphine; C-fos; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

Medial hypothalamus
Aggressive behavior; In situ hybridization; γ-Aminobutyric acid; Glutamate; Immunocytochemistry; NK-1; Substance P (Yao, R. (71) 149)

Medial prefrontal cortex
Clozapine; Neural injury; *N*-Methyl-D-aspartate receptor; Olanzapine; Risperidone (Nakahara, T. (73) 192)

Medulla
Zinc metallopeptidase; Neutral endopeptidase; Endothelin-converting enzyme; Spinal cord (Valdenaire, O. (64) 211)

Megalencephaly
Megencephaly mutant mouse; *mceph / mceph*; Insulin-like growth factor binding protein; Brain; mRNA in situ hybridization (Petersson, S. (72) 80)

Megencephaly mutant mouse
Megalencephaly; *mceph / mceph*; Insulin-like growth factor binding protein; Brain; mRNA in situ hybridization (Petersson, S. (72) 80)

Melanocortin receptor
Spinal cord; Sciatic nerve; POMC; Regeneration (Van der Kraan, M. (63) 276)

Melatonin
Retina; Retinal pigment epithelium; Receptor; *Xenopus laevis* (Wiechmann, A.F. (63) 297)

Serotonin *N*-acetyltransferase; Pineal; Retina; Molecular cloning (Craft, C.M. (65) 44)

Pineal gland; *N*-Acetyltransferase; AA-NAT; In situ hybridization; Syrian hamster (Gauer, F. (71) 87)

Circadian rhythm; PCR select; Suppression subtractive hybridization; Heme-binding protein (Zylka, M.J. (74) 175)

mt_1 Melatonin receptor mRNA
Suprachiasmatic nucleus; Diurnal rhythm; Competitive reverse transcription–polymerase chain reaction; Rat (Sugden, D. (72) 176)

Membrane skeleton
Protein 4.1; Comprehensive cDNA analysis; Brain (Yamakawa, H. (70) 197)

Memory
Prion, PrP^C; $Prnp^{0/0}$ mice; Behavior (Roesler, R. (71) 349)

Menopause
Testosterone; Estrogen; Hypothalamus; Reproduction (Danzer, S.C. (66) 200)

Hypothalamus; Luteinizing hormone; Estrogen; β-Endorphin; Aging; Proopiomelanocortin (Abel, T.W. (69) 202)

Mesencephalic
GDNF; BDNF; Transmitter release; Synaptic protein; Fasciculation (Feng, L. (66) 62)

Messenger RNA
Receptor, adrenergic, alpha; Gene expression; In situ hybridization; Lower urinary tract (Smith, M.S. (63) 254)

Calcitonin gene-related peptide; Oculomotor nucleus; Trochlear nucleus; Abducens nucleus; Trigeminal motor nucleus (Fukuoka, T. (63) 304)

Corticotropin-releasing hormone; Proopiomelanocortin; Repeated stress; Immobilization; Adaptation (Škultétyová, I. (68) 190)

Cyclic AMP response element-binding protein; Transcription factor; Alternative splicing; Gene regulation; Central nervous system (Pietruck, C. (69) 286)

Circadian rhythms; Cone photoreceptors; Rhodopsin; Rod photoreceptors; Ultraviolet-sensitive opsin (Von Schantz, M. (72) 108)

Metabotropic glutamate receptor
Splice variant; Cloning; L(+)-2-Amino-4-phosphonobutyric acid; Semliki Forest Virus (Malherbe, P. (67) 201)

Soluble extracellular fragment of receptor; Alternative slicing (Zhu, H. (73) 93)

Methamphetamine
Aldolase C mRNA; c-*fos* mRNA expression; Cerebellum; Dopamine; In situ hybridization (Hamamura, M. (64) 119)

***N*-Methyl-D-aspartate receptor**
Clozapine; Medial prefrontal cortex; Neural injury; Olanzapine; Risperidone (Nakahara, T. (73) 192)

α-Methyl-*p*-tyrosine
Dopamine; Substance P; Basal ganglia; Ritanserin (Gresch, P.J. (67) 190)

Mg^{2+} block
NMDA receptor; Ca^{2+} permeability; Adenovirus; Gene transfer; Hippocampal neuron; Postsynaptic receptor (Yamada, N. (68) 169)

Mice, transgenic
Cholinesterase inhibitor; In situ hybridization; Gene, fos; Photoreceptor, vertebrate (Broide, R.S. (71) 137)

Microglia
Gene; Iron; Neuron; Oligodendrocyte; Rat (Hansen, T.M. (65) 186)

Cell culture; Brain region; Differential mRNA expression; Inflammation; CD4; TNF-α; Fcγ receptor II; IL-3 receptor β (Ren, L.-q. (65) 198)

Retinal ganglion cell; Apoptosis; Caspase inhibitor; Axotomy (Chaudhary, P. (67) 36)

Interleukin 18; IL-18, lipopolysaccharide; Interleukin-1β converting enzyme; Astrocyte; BV2, brain (Conti, B. (67) 46)

Manganese; Nitric oxide; Parkinson's disease; Neurotoxicity (Chang, J.Y. (68) 22)

Microphysiometer
Neuropeptide Y; Peptide YY; G-protein-coupled receptor; Zebrafish; Evolution; Gene family; Chromosomal mapping (Starbäck, P. (70) 242)

Microsatellite
Gene structure; Promoter; GA repeat; Gamma-aminobutyric acid (Mu, W. (73) 171)

Microtubule
Blot overlay; Brain spectrin; Cytoskeleton; GAP-43; Rat; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

Phosphatase 2A; Anchoring factor; Phosphorylation (Price, N.E. (73) 68)

Middle cerebral artery occlusion
Blood–brain barrier; Ischemia; Cerebral blood flow; Mouse; Reperfusion (Mao, Y. (63) 366)

NF-κB; p65; Stroke; Reactive glia; Penumbra (Gabriel, C. (65) 61)

Adenovirus; Gene transfer; Interleukin-1 receptor antagonist; Intercellular adhesion molecule-1; Ischemia; Mouse (Yang, G.-Y. (65) 143)

Blood–brain barrier; Ischemia; Reperfusion; Temporary; Tumor necrosis factor-alpha (Yang, G.-Y. (69) 135)

Mifepristone (RU 486)
Enkephalin; Hamster; Adrenal medulla; Striatum; Glucocorticoid (Jimenez, R. (66) 179)

Mitogen-activated protein kinase
Amyloid precursor protein; Tau; Hyperphosphorylation; Alzheimer's disease (Grant, S.M. (72) 115)

MK-801
Cultured neuron; NMDA receptor regulation; Tyrosine kinase (Kalluri, H.S.G. (65) 206)

Mobility shift assay
Upstream binding element; Olfactory gene promoter; Nuclear Factor I; Olfactory receptor neuron; Gene expression (Baumeister, H. (72) 65)

Molecular clock
Circadian photoreceptor; Liver; Testis; Phase shift (Miyamoto, Y. (71) 238)

Molecular cloning
Serotonin *N*-acetyltransferase; Pineal; Retina; Melatonin (Craft, C.M. (65) 44)

Gliosis; CREB/ATF; In situ hybridization; Reactive astrocyte (Honma, Y. (69) 93)

Molluscan
Opiate; Neural; μ Opiate receptor transcript; Interleukin (Cadet, P. (74) 242)

Monodelphis domestica
p75; NGF; NT-3; Cross-species hybridization; Histochemistry (Luque, J.M. (65) 129)

Morphine
ACTH; Leech; MSH; Anandamide; POMC; Immunocyte; Nitric oxide (Stefano, G.B. (63) 340)

Preprodynorphin; Preproenkephalin; Kappa opioid receptor (Wang, X.-M. (66) 184)

MDMA; LSD; THC; Cocaine; C-fos; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

Sensitization; Dorsal striatum; C-*fos*; In situ hybridization; Retrograde tracing (Erdtmann-Vourliotis, M. (72) 1)

G protein; Agonist; Substance abuse (Zhang, P. (72) 195)

Mossy fiber sprouting
Hippocampus; Kainic acid; Temporal lobe epilepsy; Transcription factor (Feng, Z. (69) 144)

Motoneuron
Axotomy; Facial nucleus; In situ hybridization; Oxytocin receptor; Vasopressin receptor (Chritin, M. (70) 210)

Motopsin
Brain-specific serine protease; In situ hybridization; Motor neuron; Mouse (Iijima, N. (66) 141)

Motor cortex
Eph receptor; Corticospinal tract; Hippocampus; Purkinje cell (Ciossek, T. (74) 231)

Motor function
Novel gene; C1q-like; Brain; In situ hybridization (Bérubé, N.G. (63) 233)

Motor neuron
Hsp25; Hypoxia; Heat shock; Brainstem; Axonal transport (Murashov, A.K. (63) 14)

Brain-specific serine protease; Motopsin; In situ hybridization; Mouse (Iijima, N. (66) 141)

Mouse
Central nervous system; In situ hybridization; *nm23*; Northern blot; Nucleoside diphosphate kinase (Dabernat, S. (63) 351)

Blood–brain barrier; Ischemia; Cerebral blood flow; Middle cerebral artery occlusion; Reperfusion (Mao, Y. (63) 366)

Global cerebral ischemia; Cardiac arrest; TUNEL staining; Immediate early gene (Böttiger, B.W. (65) 135)

Adenovirus; Gene transfer; Interleukin-1 receptor antagonist; Intercellular adhesion molecule-1; Ischemia; Middle cerebral artery occlusion (Yang, G.-Y. (65) 143)

Brain-specific serine protease; Motopsin; In situ hybridization; Motor neuron (Iijima, N. (66) 141)

Homeobox; NCAM; Promoter activity; *Otx2* (Nguyen Ba-Charvet, K.T. (67) 292)

CaM kinase; Expression; Isoform; Targeting (Bayer, K.-U. (70) 147)

Adenovirus; Blood–brain barrier; Ischemia; Intracellular adhesion molecule-1; Interleukin-1; Temporary (Yang, G.-Y. (72) 129)

Sex development; Brain; mRNA differential display; Signal peptide differential display; Representational difference analysis (Eriksson, A. (74) 91)

Mouse embryonal development
Neurotensin receptor; In situ hybridization (Hermans-Borgmeyer, I. (65) 216)

Movement
Striatum; Neuropeptide; Treadmill; Rat (Liste, I. (70) 74)

MPTP
Lactoferrin; Iron; Neurodegenerative disorder; Oxidative stress (Fillebeen, C. (72) 183)

Cocaine; Dopamine transporter; Transgenic mice; Conditioned place preference; Drug reward (Donovan, D.M. (73) 37)

MSH
ACTH; Leech; Anandamide; Morphine; POMC; Immunocyte; Nitric oxide (Stefano, G.B. (63) 340)

MSP23
A170; Oxidative stress; Kainic acid; Excitotoxicity; Stress response; Stress protein (Nakaso, K. (69) 155)

Multiprobe oligonucleotide solution hybridization
Schizophrenia; Glutamate; Gene expression; Flupenthixol; Antipsychotic drug (Chen, A.C.-H. (68) 14)

Muscarinic m_2 receptor
Acetylcholine; Antisense; Hippocampus; In vivo dialysis; Alzheimer's disease (Kitaichi, K. (67) 98)

Myc
Interferon-gamma; Oncogene; Astrocyte (Rubio, N. (71) 104)

c-Myc
Neurodegeneration; Oxidative stress; Excitotoxicity; NMDA receptor; IκBα; p53 (Nakai, M. (64) 59)

Myelination
Isopentenyl diphosphate isomerase; Hypoglossal nerve regeneration; Brain development; Rat cerebral cortex; Differential display screening (Morihara, T. (67) 231)

Brain; Very-long-chain fatty acids; Peroxisomes; β-Oxidation; Development (Knoll, A. (74) 217)

Myelin basic protein
Promoter activation; Thyroid hormone; 9-*cis*-Retinoic acid; Nuclear receptor (Pombo, P.M.G. (64) 92)

Myocilin
Glaucoma; Brain; In situ hybridization (Swiderski, R.E. (68) 64)

Myotube differentiation
DNA methylation pattern; DNA methyltransferase; Nerve growth factor; PC12 differentiation; Terminal differentiation (Deng, J. (71) 23)

N

NADH dehydrogenase
Epilepsy; El mouse; Differential display; Cytochrome *c* oxidase; Vestibular stimulation (Yamada, Y. (73) 185)

Na^+/*myo*-inositol cotransporter
Excitotoxicity; Gene expression; Kainic acid (KA); Organic osmolyte (Nonaka, M. (70) 179)

NaN
GDNF; NGF; SNS/PN3; IB4; Dorsal root ganglia; Ion channel (Fjell, J. (67) 267)

NCAM
Homeobox; Promoter activity; Mouse; *Otx2* (Nguyen Ba-Charvet, K.T. (67) 292)

NDRF/NeuroD2
PKN; Protein kinase; Transcription factor; Signal transduction (Shibata, H. (74) 126)

Necrosis
Apoptosis; Parkinson's disease; Dopamine transport (Woodgate, A. (69) 84)

Neocortex
Avoidance training; Fos; Jun; CREB; Gel shift; Hippocampus; Behavior (Lukasiuk, K. (67) 64)

Neostriatum
NMDA; Glutamate receptors; Interneurons; Cholinergic (Standaert, D.G. (64) 11)

Nerve growth factor
Brain-derived neurotrophic factor; Neurotrophin-3; Acetylcholine; trkA; Septum; Alzheimer's disease; $p75^{NTR}$ (French, S.J. (67) 124)

Promoter; PC12 cell; Cerebral cortex; Primary sensory neuron; Carboxypeptidase A (Miyasaka, N. (69) 62)

DNA methylation pattern; DNA methyltransferase; PC12 differentiation; Myotube differentiation; Terminal differentiation (Deng, J. (71) 23)

Nerve injury
Hypoglossal nerve; Rat; EST; Nerve regeneration (Tanabe, K. (64) 34)

Nerve regeneration
IGF mRNA; Somatomedin; Neurotrophic factor; Neuromuscular junction (Pu, S.-F. (63) 207)

Hypoglossal nerve; Rat; EST; Nerve injury (Tanabe, K. (64) 34)

Nervous system
Interleukin; Intracerebroventricular; Aging; Immune system; Neuroimmunology; Growth factor; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

NeuN
Apoptosis; Ionizing radiation; Dentate gyrus; Cell proliferation; TUNEL; Ki-67 (Peißner, W. (71) 61)

Neural
Opiate; Molluscan; μ Opiate receptor transcript; Interleukin (Cadet, P. (74) 242)

Neural cell adhesion molecule
Human optic nerve; Reactive astrocyte; Lamina cribrosa; Glaucoma (Ricard, C.S. (74) 69)

Neural development
Eph receptor; Ephrin; Trigeminal system; Corticospinal tract; Hippocampus (Rogers, J.H. (74) 225)

Neural differentiation
Non-coding RNA; Repetitive sequence; Limbic system (Komine, Y. (66) 1)

Neural injury
Clozapine; Medial prefrontal cortex; *N*-Methyl-D-aspartate receptor; Olanzapine; Risperidone (Nakahara, T. (73) 192)

Neural tissue-specific gene
Immunohistochemistry; Dendrite; Outgrowth (Shinozaki, K. (71) 364)

Neural transplantation
Basic fibroblast growth factor; 6-Hydroxydopamine; Immunohistochemistry; Transforming growth factor beta 2; Ventral mesencephalon (Sommer, C. (69) 53)

Neurite outgrowth
AK1; Electrophoretic mobility shift assay; NeuroD; PC12; Promoter; Transactivation (Noma, T. (67) 53)

Neuroblastoma
Gene structure; Neuron-specific splicing; REST; NRSF; XBR (Palm, K. (72) 30)

NeuroD
AK1; Electrophoretic mobility shift assay; Neurite outgrowth; PC12; Promoter; Transactivation (Noma, T. (67) 53)

NeuroD (BETA2/BHF1)
Neuronal development; Promoter; Autoactivation; Basic helix-loop-helix (Miyachi, T. (69) 223)

Neurodegeneration
Oxidative stress; Excitotoxicity; NMDA receptor; IκBα; c-Myc; p53 (Nakai, M. (64) 59)

Transgenic mouse; Spatial learning; Alzheimer's disease; Amyloid precursor protein; Gene; Neurotoxicity; Cognition (Berger-Sweeney, J. (66) 150)

Hemochromatosis; Hippocampus; In situ hybridization; Iron deficiency; Transferrin (Moos, T. (72) 231)

Ataxin-7; *SCA7*; Nuclear inclusion; Polyglutamine; Ubiquitin (Mauger, C. (74) 35)

Neurodegenerative disorder
Lactoferrin; Iron; MPTP; Oxidative stress (Fillebeen, C. (72) 183)

Neurofilament
p53; Cyclin; Dephosphorylation; Development (Van Lookeren Campagne, M. (64) 1)

Phosphorylation; Calcium channel; Depolarization; MAPK; PC12 cell (Li, B.-S. (70) 84)

Neurogenesis
Cultured brain neurons; Hypoxia/reoxygenation; Apoptosis; Caspase-3 induction; PARP cleavage; Caspase inhibitors (Bossenmeyer-Pourié, C. (71) 225)

Neuroglioma
Reactive oxygen species; Superoxide dismutase; Catalase; Anti-Fas antibody (Jayanthi, S. (72) 158)

Neuroimmunology
Interleukin; Intracerebroventricular; Aging; Nervous system; Immune system; Growth factor; Hypothalamus; Hippocampus; Cortex; Cerebellum (Gayle, D. (70) 92)

Neurological
Brain; Ischemia; Growth hormone; Stroke; Treatment (Scheepens, A. (68) 88)

Neuromuscular junction
IGF mRNA; Somatomedin; Neurotrophic factor; Nerve regeneration (Pu, S.-F. (63) 207)

Neuron
Sindbis virus; Gene transfer; Glia; EGFP; *LacZ* (Gwag, B.J. (63) 53)

NPY; Olfactory; Brain; Copper; Deficiency (Rutkoski, N.J. (65) 80)

Gene; Iron; Microglia; Oligodendrocyte; Rat (Hansen, T.M. (65) 186)

Cell culture; Rat brain; Nicotinic receptor; Acetylcholine; Cortex; Brainstem; α4/β2 (Dávila-García, M.I. (66) 14)

Glutamate; Apoptosis; Bcl-2; Caspase; Basic fibroblast growth factor (Liu, X. (71) 210)

Heat shock protein; Hsp70; Hippocampus; Glia; Gene expression (Krueger, A.M.R. (71) 265)

Hypoxia; Cell death; Apoptosis; Gene (Banasiak, K.J. (72) 214)

ATP-sensitive potassium channel; Glia; In situ hybridization; Immunohistochemistry; Electron microscopy (Zhou, M. (74) 15)

NMDA receptor; NRSF/REST; Gene regulation (Okamoto, S.-i. (74) 44)

Neuronal apoptosis
Kainic acid; Seizure; p53; DNA-binding; Cycloheximide (Liu, W. (63) 248)

Neuronal damage
Seizure; Transcription factor; Development (Dubé, C. (63) 139)

Neuronal death
Cerebellar granule cell; Apoptosis; Caspase; Cytochrome *c*; 6-Hydroxydopamine; Parkinson's disease (Dodel, R.C. (64) 141)

Cerebral ischemia; Astroglia; GFAP and GLUT3 mRNA (Liu, D. (68) 29)

Neuronal degeneration
Acetylcholine; Epilepsy (Follesa, P. (70) 1)

Phosphatidylinositol; Okadaic acid; Etoposide; Phosphoinositide 3-kinase (Kyrylenko, S. (73) 197)

Neuronal development
NeuroD (BETA2/BHF1); Promoter; Autoactivation; Basic helix-loop-helix (Miyachi, T. (69) 223)

Neuronal differentiation
Growth-associated protein B-50/GAP-43; Olfactory marker protein; Olfactory system; Transgenic mice; Gene regulation (Holtmaat, A.J.G.D. (74) 197)

Neuronal plasticity
Immediate early gene; Visual development; Visual pathway (Mower, G.D. (64) 264)

Cell death; Transporter; Excitatory amino acid (Simantov, R. (65) 112)

In situ hybridization; Barrel cortex; Vibrissae; GABA; AMPA (Gierdalski, M. (71) 111)

Neurons
S100β; Bcl-2; Apoptosis (Wang, S. (70) 167)

Neuron-specific splicing
Gene structure; REST; NRSF; XBR; Neuroblastoma (Palm, K. (72) 30)

Neuropathic pain
BDNF; NGF; NT-3; RPA; Spinal nerve ligation (Shen, H. (64) 186)

Neuropeptide
Urocortin; CRF-binding protien; In situ; mRNA (Cepoi, D. (68) 109)

G protein-coupled receptor; CNS; In situ hybridization; Bombesin; Endothelin; Orphan receptor (Leng, N. (69) 73)

Striatum; Movement; Treadmill; Rat (Liste, I. (70) 74)

PACAP; Sequence; In situ hybridization; Chicken brain (Peeters, K. (71) 244)

Receptor; Glycosylation; Anti-peptide antiserum; Rat brain; Immunochemistry (Hervieu, G. (71) 290)

Somatostatin receptor; Promoter analysis; Seizure; Transcription factor (Calbet, M. (72) 55)

Northern blot; Feeding; Sex; Season; Fish (Peyon, P. (74) 190)

Neuropeptides
Proprotein convertase; Proteolytic processing; In situ hybridization; Frog brain (Vieau, D. (63) 1)

Neuropeptide Y
Depression; Stress; mRNA; Tyrosine hydroxylase; Dopamine β-hydroxylase; Adrenal; Dopaminergic neuron (Serova, L. (63) 133)

Hypocretin; Immunohistochemistry; In situ hybridization histochemistry; Obese; Orexin (Yamamoto, Y. (65) 14)

Peptide YY; G-protein-coupled receptor; Microphysiometer; Zebrafish; Evolution; Gene family; Chromosomal mapping (Starbäck, P. (70) 242)

Neuropeptide Y receptor; Gene expression; Kindling; Epilepsy (Kopp, J. (72) 17)

Neuropeptide Y receptor
Neuropeptide Y; Gene expression; Kindling; Epilepsy (Kopp, J. (72) 17)

Neuropoietic cytokine
CT-1; IL-11; Soluble receptor; Neurotrophic; Sensory neuron (Thier, M. (64) 80)

Neuroprotection
Neurosteroid; Antioxidant; Free radical; Alzheimer's disease (Bastianetto, S. (66) 35)

Neurosteroid
Antioxidant; Free radical; Neuroprotection; Alzheimer's disease (Bastianetto, S. (66) 35)

Neurotensin
Dopamine; Striatum; Extrapyramidal; Caudate nucleus; Parkinson's disease (Hanson, G.R. (66) 111)

Neurotensin receptor
Mouse embryonal development; In situ hybridization (Hermans-Borgmeyer, I. (65) 216)

Receptor-mediated endocytosis; Gene transfer; Gene therapy; Transgenic animal (Martinez-Fong, D. (69) 249)

Neurotoxicity
Kainic acid; Fos–lacZ; Transgenic mice; Development; Glutamate signalling (Vendrell, M. (63) 25)

Neurodegeneration; Transgenic mouse; Spatial learning; Alzheimer's disease; Amyloid precursor protein; Gene; Cognition (Berger-Sweeney, J. (66) 150)

Manganese; Microglia; Nitric oxide; Parkinson's disease (Chang, J.Y. (68) 22)

Ibogaine; *Egr-1*; C-*fos*; Early gene expression (Ali, S.F. (74) 237)

Neurotrauma
iNOS; ICE; IL-1β; mRNA expression; Immunoreactivity (Knerlich, F. (68) 73)

Neurotrophic
CT-1; IL-11; Soluble receptor; Neuropoietic cytokine; Sensory neuron (Thier, M. (64) 80)

Neurotrophic factor
IGF mRNA; Somatomedin; Nerve regeneration; Neuromuscular junction (Pu, S.-F. (63) 207)

PACAP mRNA; In situ hybridisation; Brain development (Skoglösa, Y. (65) 1)

Neurotrophin
Ischemia; Hypothermia; Gene expression; Brain; Protection (Boris-Möller, F. (63) 163)

Glial cell line-derived neurotrophic factor; cDNA; Promoter (Baecker, P.A. (69) 209)

Brn-3; POU domain; NGFI-A; Immediate early (Smith, M.D. (74) 117)

Neurotrophin-3
Nerve growth factor; Brain-derived neurotrophic factor; Acetylcholine; trkA; Septum; Alzheimer's disease; $p75^{NTR}$ (French, S.J. (67) 124)

Gene expression; Phorbol ester; AP-1; Vascular smooth muscle cell; Reverse transcription-PCR (Nemoto, K. (68) 186)

Neurotrophin receptor
Aging; In situ hybridization; Immunohistochemistry; Behavior (Johnson, H. (69) 21)

Neurturin
GDNF; GPI-linked receptor; GFRα-1 and GFRα-2; Ret-tyrosine kinase; Development; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

Neutral endopeptidase
Zinc metallopeptidase; Endothelin-converting enzyme; Spinal cord; Medulla (Valdenaire, O. (64) 211)

NF-κB
Stroke; Ischemia; Transcription factor; Electrophoretic mobility shift assay (Zhang, S. (63) 121)

p65; Stroke; Middle cerebral artery occlusion; Reactive glia; Penumbra (Gabriel, C. (65) 61)

Electrophoretic mobility shift assay; Rel; Transcription factor; UV-crosslinking (Moerman, A.M. (67) 303)

Scrapie; Prion; Cytokine; Astrocyte; Reactive oxygen species (Kim, J.-I. (73) 17)

NF-L
α-Internexin; Intermediate filament; Knockout mice; Optic nerve (Levavasseur, F. (69) 104)

NG108-15 cell
Calreticulin; Calcium; KDEL protein (Xiao, G. (72) 121)

NGF
BDNF; Neuropathic pain; NT-3; RPA; Spinal nerve ligation (Shen, H. (64) 186)

p75; NT-3; Cross-species hybridization; Histochemistry; *Monodelphis domestica* (Luque, J.M. (65) 129)

GDNF; SNS/PN3; NaN; IB4; Dorsal root ganglia; Ion channel (Fjell, J. (67) 267)

Trk receptor; Tyrosine kinase; Taste; BDNF; NT-3; NT-4; In situ RT-PCR (Cho, T.T. (68) 1)

BDNF; NT-3; *trk*; Striatum; Excitatory amino acid (Canals, J.M. (69) 242)

NGFI-A
Circadian rhythm; c-*fos*; Acetylcholine (O'Hara, B.F. (66) 71)

NGFI-A
Brn-3; POU domain; Neurotrophin; Immediate early (Smith, M.D. (74) 117)

NGFI-A (zif-268; Krox24)
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Nicotinic acetylcholine receptor
Alzheimer's disease; Human brain; mRNA; RT-PCR (Hellström-Lindahl, E. (66) 94)

Nicotinic acetylcholine receptor agonist
Fibroblast growth factor-2; (±)-Epibatidine; Brain-derived neurotrophic factor; Glial cell line-derived neurotrophic factor; Fibroblast growth factor receptor-1 (Belluardo, N. (74) 98)

Nicotinic ACh receptor
Arachidonic acid; Protein kinase C; Synaptic transmission; Long-term potentiation; Hippocampus (Nishizaki, T. (69) 263)

Nicotinic receptor
Aging; Alzheimer's disease; Entorhinal cortex; Hippocampus; In situ hybridisation (Terzano, S. (63) 72)

Cell culture; Rat brain; Acetylcholine; Neuron; Cortex; Brainstem; α4/β2 (Dávila-García, M.I. (66) 14)

Nitric oxide
ACTH; Leech; MSH; Anandamide; Morphine; POMC; Immunocyte (Stefano, G.B. (63) 340)

Differentiation; Dominant negative mutant; Soluble guanylate cyclase (Phung, Y.T. (64) 165)

Cell death; Apoptosis; Epilepsy; Caspase; c-Jun (Becker, A.J. (67) 172)

Brain capillary endothelial cell; Astrocyte; cGMP; cGMP-dependent protein kinase; Vasodilator-stimulated phosphoprotein (Sporbert, A. (67) 258)

Manganese; Microglia; Parkinson's disease; Neurotoxicity (Chang, J.Y. (68) 22)

Brain; Arginine; System y^+; Arginase; Argininosuccinate; In situ hybridization (Braissant, O. (70) 231)

Pineal; Nitric oxide synthase; Heme oxygenase; Carbon monoxide; RT-PCR; Light/dark cycle (Jacobs, R.A. (70) 264)

Nitric oxide synthase
Parkinson's disease; In situ hybridization; mRNA; Human; Basal ganglia (Eve, D.J. (63) 62)

Pineal; Nitric oxide; Heme oxygenase; Carbon monoxide; RT-PCR; Light/dark cycle (Jacobs, R.A. (70) 264)

Nitrobenzylthioinosine
Adenosine; Adenosine transport; ENT2; *Ei* nucleoside transporter; In situ hybridization; RT-PCR (Anderson, C.M. (70) 293)

Nitrogen permease regulator
Differential display PCR; Lithium; Bipolar disorder; Gene expression (Wang, J.-F. (70) 66)

NK-1
Aggressive behavior; In situ hybridization; γ-Aminobutyric acid; Glutamate; Medial hypothalamus; Immunocytochemistry; Substance P (Yao, R. (71) 149)

nm23
Central nervous system; In situ hybridization; Mouse; Northern blot; Nucleoside diphosphate kinase (Dabernat, S. (63) 351)

NMDA
Glutamate receptors; Neostriatum; Interneurons; Cholinergic (Standaert, D.G. (64) 11)

NMDA (*N*-methyl-D-aspartate) receptor
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB; NGFI-A (zif-268; Krox24)*; Excitatory amino acid; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

NMDAR1
Nucleus accumbens; Glutamate; GluR1; GluR2; mGluR5 (Lu, X.-Y. (63) 287)

NMDA receptor
Neurodegeneration; Oxidative stress; Excitotoxicity; IκBα; c-Myc; p53 (Nakai, M. (64) 59)

Subunit; Protein; Hippocampus; Development; Lead (Nihei, M.K. (66) 42)

Ca^{2+} permeability; Mg^{2+} block; Adenovirus; Gene transfer; Hippocampal neuron; Postsynaptic receptor (Yamada, N. (68) 169)

Brain-derived neurotrophic factor; Postsynaptic density; Protein tyrosine phosphatase; trkB (Lin, S.-y. (70) 18)

Pharmacology; Efficacy; Affinity; DCK; HA-966 (Wood, M.W. (73) 188)

NRSF/REST; Gene regulation; Neuron (Okamoto, S.-i. (74) 44)

NMDA receptor regulation
Cultured neuron; MK-801; Tyrosine kinase (Kalluri, H.S.G. (65) 206)

Cultured neuron; Phosphorylation; Ethanol; Fyn kinase; Csk kinase (Kalluri, H.S.G. (68) 159)

NMDA receptor-splice variant
Alcohol; Nucleus accumbens; Hippocampus; Competitive RT-PCR; Western blot analysis (Winkler, A. (72) 166)

NMDA subunit
Nuclease protection assay; Gene expression (Goebel, D.J. (69) 164)

***N*-methyl-D-aspartate receptor**
Estrogen; Estrogen receptor; CpG island; Estrogen responsive element; Brain (Watanabe, T. (63) 375)

Nociception
Respiration; Cardiovascular; Somatosensory; Viscerosensory (Guthmann, A. (74) 145)

Nociceptor endings
Kyotorphin; Substance P (Inoue, M. (69) 302)

Non-coding RNA
Repetitive sequence; Limbic system; Neural differentiation (Komine, Y. (66) 1)

Non-radioactive in situ hybridization
μ-Opioid receptor mRNA; Amphetamine behavioral sensitization; Nucleus accumbens shell; Striatum (Vecchiola, A. (69) 1)

Noradrenaline
Exocytosis; Calcium; Cytoskeleton; Protein kinase C (Danks, K. (64) 236)

Norepinephrine transporter
Superior cervical ganglion; Serotonin transporter; In situ hybridization (Nishimura, M. (67) 82)

Northern blot
Central nervous system; In situ hybridization; *nm23*; Mouse; Nucleoside diphosphate kinase (Dabernat, S. (63) 351)

Receptor; GPCR; Intronless; Pseudogene; Chromosome (Sawzdargo, M. (64) 193)

Neuropeptide; Feeding; Sex; Season; Fish (Peyon, P. (74) 190)

iNOS
Neurotrauma; ICE; IL-1β; mRNA expression; Immunoreactivity (Knerlich, F. (68) 73)

Notch1
Presenilin 1; PS1 knockout mice; PS1 transgenics; Primary neurons (Berezovska, O. (69) 273)

Novel gene
C1q-like; Motor function; Brain; In situ hybridization (Bérubé, N.G. (63) 233)

NPY
Olfactory; Neuron; Brain; Copper; Deficiency (Rutkoski, N.J. (65) 80)

NRSE
Gene expression; Promoter; Silencer; Gamma-aminobutyric acid; Benzodiazepine (Mu, W. (67) 137)

NRSF
Gene structure; Neuron-specific splicing; REST; XBR; Neuroblastoma (Palm, K. (72) 30)

NRSF/REST
NMDA receptor; Gene regulation; Neuron (Okamoto, S.-i. (74) 44)

NT-3
BDNF; Neuropathic pain; NGF; RPA; Spinal nerve ligation (Shen, H. (64) 186)

p75; NGF; Cross-species hybridization; Histochemistry; *Monodelphis domestica* (Luque, J.M. (65) 129)

Trk receptor; Tyrosine kinase; Taste; NGF; BDNF; NT-4; In situ RT-PCR (Cho, T.T. (68) 1)

NGF; BDNF; *trk*; Striatum; Excitatory amino acid (Canals, J.M. (69) 242)

cAMP; cAMP-dependent protein kinase A; TGF-β1; GGF_2 (Cai, F. (71) 256)

NT-4
Trk receptor; Tyrosine kinase; Taste; NGF; BDNF; NT-3; In situ RT-PCR (Cho, T.T. (68) 1)

Nuclear factor
APP; Beta-peptide; Gel shift assay; Gene regulation; Transcription (Lahiri, D.K. (71) 32)

Nuclear Factor I
Upstream binding element; Olfactory gene promoter; Olfactory receptor neuron; Gene expression; Mobility shift assay (Baumeister, H. (72) 65)

Nuclear inclusion
Ataxin-7; *SCA7*; Neurodegeneration; Polyglutamine; Ubiquitin (Mauger, C. (74) 35)

Nuclear receptor
Myelin basic protein; Promoter activation; Thyroid hormone; 9-*cis*-Retinoic acid (Pombo, P.M.G. (64) 92)

Nuclease protection assay
Gene expression; NMDA subunit (Goebel, D.J. (69) 164)

Nucleoside diphosphate kinase
Central nervous system; In situ hybridization; *nm23*; Mouse; Northern blot (Dabernat, S. (63) 351)

Nucleus accumbens
Glutamate; NMDAR1; GluR1; GluR2; mGluR5 (Lu, X.-Y. (63) 287)

Dopamine receptor; Corticosterone; Caudate–putamen; Promoter; Transcription (Lammers, C.-H. (69) 281)

Alcohol; NMDA receptor-splice variant; Hippocampus; Competitive RT-PCR; Western blot analysis (Winkler, A. (72) 166)

Nucleus accumbens shell
μ-Opioid receptor mRNA; Amphetamine behavioral sensitization; Non-radioactive in situ hybridization; Striatum (Vecchiola, A. (69) 1)

Nucleus of the tractus solitarius
Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; c-*fos*; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Barrington's nucleus; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Nurr1
Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Catecholamine; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Dopamine transporter; Human; Transcription regulation; *cis*-Regulatory element; Gene (Sacchetti, P. (74) 167)

O

Obese
Hypocretin; Immunohistochemistry; In situ hybridization histochemistry; Neuropeptide Y; Orexin (Yamamoto, Y. (65) 14)

Oculomotor nucleus
Calcitonin gene-related peptide; Messenger RNA; Trochlear nucleus; Abducens nucleus; Trigeminal motor nucleus (Fukuoka, T. (63) 304)

8-OH-DPAT
Fusion protein; Immunocytochemistry; Autoradiography; Autoinnervation; Limbic system; Hippocampus (Zhou, F.C. (69) 186)

Okadaic acid
Ischemia; c-Jun; Programmed cell death (Walton, M. (63) 198)

Alzheimer's disease; c-Jun; CREB; PC12 cell; AP-1 (Woodgate, A. (66) 211)

Phosphatidylinositol; Etoposide; Phosphoinositide 3-kinase; Neuronal degeneration (Kyrylenko, S. (73) 197)

Olanzapine
Clozapine; Medial prefrontal cortex; Neural injury; *N*-Methyl-D-aspartate receptor; Risperidone (Nakahara, T. (73) 192)

Olfactory
NPY; Neuron; Brain; Copper; Deficiency (Rutkoski, N.J. (65) 80)

Olfactory gene promoter
Upstream binding element; Nuclear Factor I; Olfactory receptor neuron; Gene expression; Mobility shift assay (Baumeister, H. (72) 65)

Olfactory marker protein
Growth-associated protein B-50/GAP-43; Olfactory system; Transgenic mice; Neuronal differentiation; Gene regulation (Holtmaat, A.J.G.D. (74) 197)

Olfactory receptor neuron
Upstream binding element; Olfactory gene promoter; Nuclear Factor I; Gene expression; Mobility shift assay (Baumeister, H. (72) 65)

Olfactory system
Growth-associated protein B-50/GAP-43; Olfactory marker protein; Transgenic mice; Neuronal differentiation; Gene regulation (Holtmaat, A.J.G.D. (74) 197)

Oligodendrocyte
Oxidative stress; p53; Subcellular localization; Suppressor gene; Oligodendroglia; Stress; H_2O_2 (Uberti, D. (65) 167)

Gene; Iron; Microglia; Neuron; Rat (Hansen, T.M. (65) 186)

AMPA receptor; MAPK; c-*fos* (Liu, H.-N. (66) 50)

Astrocyte; Progenitor cell; Glutamate homeostasis (Domercq, M. (67) 296)

Glutamate receptor; Deaminase; Rat; Bovine (De Zulueta, M.P. (73) 104)

Oligodendroglia
Oligodendrocyte; Oxidative stress; p53; Subcellular localization; Suppressor gene; Stress; H_2O_2 (Uberti, D. (65) 167)

Oligodeoxynucleotide
Angiotensin; In situ hybridization; Rostrocaudal pattern; Core region (Barth, S.W. (64) 151)

Oligonucleotide
Guinea-pig brain; CGRP receptor; CGRP-RCP; In situ hybridization (Oliver, K.R. (66) 205)

Oncogene
Interferon-gamma; *Myc*; Astrocyte (Rubio, N. (71) 104)

Oocyte
P2X receptor; $P2X_4$; Ion channel; Alternative splicing; ATP (Townsend-Nicholson, A. (64) 246)

Opiate
Molluscan; Neural; μ Opiate receptor transcript; Interleukin (Cadet, P. (74) 242)

μ Opiate receptor transcript
Opiate; Molluscan; Neural; Interleukin (Cadet, P. (74) 242)

Opioid receptor
Enkephalin; Knockout; Amygdala; Hypothalamus; Autoradiography (Brady, L.S. (68) 193)

μ-Opioid receptor
Proopiomelanocortin; Enkephalin; β-Endorphin; Arcuate nucleus; Reproduction (Bouret, S. (70) 155)

Cloning; Bovine; Gene expression (Onoprishvili, I. (73) 129)

μ-Opioid receptor mRNA
Amphetamine behavioral sensitization; Non-radioactive in situ hybridization; Nucleus accumbens shell; Striatum (Vecchiola, A. (69) 1)

Opsin
Exo-rhodopsin; Rhodopsin; Pineal gland; Circadian rhythm; Zebrafish (*Danio rerio*) (Mano, H. (73) 110)

Optic nerve
α-Internexin; NF-L; Intermediate filament; Knockout mice (Levavasseur, F. (69) 104)

Orexin
Hypocretin; Immunohistochemistry; In situ hybridization histochemistry; Neuropeptide Y; Obese (Yamamoto, Y. (65) 14)

Organic osmolyte
Excitotoxicity; Gene expression; Kainic acid (KA); Na^+/*myo*-inositol cotransporter (Nonaka, M. (70) 179)

Organ of Corti
Serotonin receptor; Cochlea; Spiral ganglion; Lateral wall (Oh, C.K. (70) 135)

Orphan receptor
G protein-coupled receptor; CNS; In situ hybridization; Neuropeptide; Bombesin; Endothelin (Leng, N. (69) 73)

Ortholog
G protein-coupled receptor; mRNA distribution (Lee, D.K. (71) 96)

Osmotic regulation
Excitatory amino acid receptors; Glutamate receptors; Receptor modulation; Receptor downregulation; Vasopressin; Magnocellular neuroendocrine cells (Currás-Collazo, M.C. (70) 187)

Otx2
Homeobox; NCAM; Promoter activity; Mouse (Nguyen Ba-Charvet, K.T. (67) 292)

Outgrowth
Immunohistochemistry; Neural tissue-specific gene; Dendrite (Shinozaki, K. (71) 364)

β-Oxidation
Brain; Very-long-chain fatty acids; Peroxisomes; Development; Myelination (Knoll, A. (74) 217)

Oxidative stress
Neurodegeneration; Excitotoxicity; NMDA receptor; IκBα; c-Myc; p53 (Nakai, M. (64) 59)

Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Stroke; Heme oxygenase; Heat shock protein; HSP70; Stress protein; Anti-oxidant (Turner, C.P. (65) 87)

Oligodendrocyte; p53; Subcellular localization; Suppressor gene; Oligodendroglia; Stress; H_2O_2 (Uberti, D. (65) 167)

A170; MSP23; Kainic acid; Excitotoxicity; Stress response; Stress protein (Nakaso, K. (69) 155)

Alzheimer's disease; Cybrid; Glutathione; Heat shock factor; Reactive oxygen intermediate (Bijur, G.N. (71) 69)

Lactoferrin; Iron; MPTP; Neurodegenerative disorder (Fillebeen, C. (72) 183)

Oxytocin receptor
Axotomy; Facial nucleus; In situ hybridization; Motoneuron; Vasopressin receptor (Chritin, M. (70) 210)

P

p53
Kainic acid; Seizure; DNA-binding; Neuronal apoptosis; Cycloheximide (Liu, W. (63) 248)

Neurofilament; Cyclin; Dephosphorylation; Development (Van Lookeren Campagne, M. (64) 1)

Neurodegeneration; Oxidative stress; Excitotoxicity; NMDA receptor; IκBα; c-Myc (Nakai, M. (64) 59)

Oligodendrocyte; Oxidative stress; Subcellular localization; Suppressor gene; Oligodendroglia; Stress; H_2O_2 (Uberti, D. (65) 167)

PAC1-R; Zac; Ischemia; Apoptosis; Differentiation (Ciani, E. (69) 290)

Ischemic preconditioning; Rat; $p21^{WAF1/Cip1}$; PAG608/Wig-1; DNA damage (Tomasevic, G. (70) 304)

Cyclin D1; Cell cycle; Cell death; Apoptosis; Traumatic brain injury (Napieralski, J.A. (71) 78)

Transgenic mice; CNS; PNS (Tendler, Y. (72) 40)

JNK; JIP-1; c-Jun; PAG608; Cerebral ischemia (Gillardon, F. (73) 138)

p65
NF-κB; Stroke; Middle cerebral artery occlusion; Reactive glia; Penumbra (Gabriel, C. (65) 61)

p75
NGF; NT-3; Cross-species hybridization; Histochemistry; *Monodelphis domestica* (Luque, J.M. (65) 129)

$p75^{NTR}$
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; Acetylcholine; trkA; Septum; Alzheimer's disease (French, S.J. (67) 124)

$p21^{WAF1/Cip1}$
Ischemic preconditioning; Rat; p53; PAG608/Wig-1; DNA damage (Tomasevic, G. (70) 304)

PACAP
Neuropeptide; Sequence; In situ hybridization; Chicken brain (Peeters, K. (71) 244)

PACAP-I-Receptor
In situ hybridization; Hippocampal and cerebellar mossy fiber (Otto, C. (66) 163)

PACAP mRNA
In situ hybridisation; Brain development; Neurotrophic factor (Skoglösa, Y. (65) 1)

PAC1-R
p53; Zac; Ischemia; Apoptosis; Differentiation (Ciani, E. (69) 290)

PAG608
JNK; JIP-1; c-Jun; p53; Cerebral ischemia (Gillardon, F. (73) 138)

PAG608/Wig-1
Ischemic preconditioning; Rat; p53; $p21^{WAF1/Cip1}$; DNA damage (Tomasevic, G. (70) 304)

Pain
Preprodynorphin; Preproenkephalin; Temporomandibular joint; Perioral skin (Imbe, H. (67) 87)

Paraventricular hypothalamic nucleus
Calmodulin gene expression; In situ hybridization; Water deprivation; Supraoptic nucleus; Rat (Palfi, A. (74) 111)

Paraventricular nucleus
Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; c-*fos*; Corticotropin-releasing factor; Stress; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

17β-Estradiol; ERβ; Phytoestrogen; Endocrine disruptor (Patisaul, H.B. (67) 165)

Parietal cortex
c-Fos; DOI; 5-HT2A receptors; Immunohistochemistry; Double labeling (Maćkowiak, M. (71) 358)

Parkinson's disease
Nitric oxide synthase; In situ hybridization; mRNA; Human; Basal ganglia (Eve, D.J. (63) 62)

Neuronal death; Cerebellar granule cell; Apoptosis; Caspase; Cytochrome *c*; 6-Hydroxydopamine (Dodel, R.C. (64) 141)

Neurotensin; Dopamine; Striatum; Extrapyramidal; Caudate nucleus (Hanson, G.R. (66) 111)

Manganese; Microglia; Nitric oxide; Neurotoxicity (Chang, J.Y. (68) 22)

Apoptosis; Necrosis; Dopamine transport (Woodgate, A. (69) 84)

Basal ganglia; Serotonin receptor; Dopamine receptor; Substance P; In situ hybridization (Gresch, P.J. (70) 125)

PARP cleavage
Cultured brain neurons; Hypoxia/reoxygenation; Apoptosis; Caspase-3 induction; Caspase inhibitors; Neurogenesis (Bossenmeyer-Pourié, C. (71) 225)

Patch clamp
Single channel; IPSC; Deactivation; Alpha-5 subtype (Burgard, E.C. (73) 28)

Patch-clamp
Single-cell RT-PCR; Kv1; Kv2; Pharmacology (Seifert, G. (74) 55)

Paw formalin test
Islet amyloid polypeptide; Calcitonin gene-related peptide; Substance P; Gene knock out; Dorsal root ganglion (DRG) neurons; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

PC12
Protein tyrosine phosphatase; Striatum; Cyclic AMP; Cyclic AMP-dependent protein kinase (Okamura, A. (67) 1)

AK1; Electrophoretic mobility shift assay; Neurite outgrowth; NeuroD; Promoter; Transactivation (Noma, T. (67) 53)

Tyrosine hydroxylase; CREB; Antisense RNA; cAMP (Piech-Dumas, K.M. (70) 219)

Alzheimer's disease; Aβ; Calcium; Hydrogen peroxide; A23187 (McKeon-O'Malley, C. (72) 103)

C100; Bradykinin; Calcium (Pascale, A. (72) 205)

PC12 cell
GAP-43; mRNA stability; RNA-binding protein; Process outgrowth (Neve, R.L. (65) 52)

Adenovirus; Gene transfer; Ca^{2+}-permeable AMPA receptor; Hippocampal neuron; Glutamatergic synapse (Sudo, M. (65) 176)

Okadaic acid; Alzheimer's disease; c-Jun; CREB; AP-1 (Woodgate, A. (66) 211)

Promoter; Nerve growth factor; Cerebral cortex; Primary sensory neuron; Carboxypeptidase A (Miyasaka, N. (69) 62)

Neurofilament; Phosphorylation; Calcium channel; Depolarization; MAPK (Li, B.-S. (70) 84)

PC12 differentiation
DNA methylation pattern; DNA methyltransferase; Nerve growth factor; Myotube differentiation; Terminal differentiation (Deng, J. (71) 23)

PCR select
Circadian rhythm; Melatonin; Suppression subtractive hybridization; Heme-binding protein (Zylka, M.J. (74) 175)

PDZ domain
PTPζ/RPTPβ; PSD-95/SAP90 family; Postsynaptic density (Kawachi, H. (72) 47)

Penumbra
NF-κB; p65; Stroke; Middle cerebral artery occlusion; Reactive glia (Gabriel, C. (65) 61)

Peptidergic neuron
Histamine receptor; Primary sensory neuron; In situ hybridization; Peripheral nerve injury; Guinea pig (Kashiba, H. (66) 24)

Peptide YY
Neuropeptide Y; G-protein-coupled receptor; Microphysiometer; Zebrafish; Evolution; Gene family; Chromosomal mapping (Starbäck, P. (70) 242)

per
Circadian rhythm; Suprachiasmatic nucleus; *Clock*; *BMAL1*; Light (Abe, H. (66) 104)

***Period* repeat sequence**
Circadian rhythm; Suprachiasmatic nucleus; EMSA (Hamada, T. (65) 211)

Perioral skin
Preprodynorphin; Preproenkephalin; Temporomandibular joint; Pain (Imbe, H. (67) 87)

Peripheral myelin protein Po
Dihydrotestosterone; Androgen receptor; Progesterone receptor; Schwann cell; Sciatic nerve (Magnaghi, V. (70) 36)

Peripheral nerve injury
Histamine receptor; Primary sensory neuron; Peptidergic neuron; In situ hybridization; Guinea pig (Kashiba, H. (66) 24)

Permeability
Hypothermia; Vascular endothelial growth factor; Hypoxia; Endothelial cell (Fischer, S. (74) 135)

Peroxisomes
Brain; Very-long-chain fatty acids; β-Oxidation; Development; Myelination (Knoll, A. (74) 217)

Pertussis toxin
Sphingosine 1-phosphate; Fibroblast growth factor-2; Early growth response-1; GTP-binding protein; Protein kinase C (Sato, K. (74) 182)

Phage-displayed peptide libraries
Huntington's disease; Trinucleotide repeat; Langerhans cells and brain (Wilkinson, F.L. (69) 10)

Pharmacological profile
Serotonin transporters; Uptake parameters; SSRI; TCA; RT-PCR (Mortensen, O.V. (71) 120)

Pharmacology
NMDA receptor; Efficacy; Affinity; DCK; HA-966 (Wood, M.W. (73) 188)

Patch-clamp; Single-cell RT-PCR; Kv1; Kv2 (Seifert, G. (74) 55)

Phase shift
Circadian photoreceptor; Molecular clock; Liver; Testis (Miyamoto, Y. (71) 238)

Phorbol ester
Neurotrophin-3; Gene expression; AP-1; Vascular smooth muscle cell; Reverse transcription-PCR (Nemoto, K. (68) 186)

Phosphatase 2A
Microtubule; Anchoring factor; Phosphorylation (Price, N.E. (73) 68)

Phosphatidic acid phosphatase
In situ hybridization; *Dri 42*; Ventricular germinal zone; Bergmann glia (Suzuki, R. (66) 195)

Phosphatidylinositol
Okadaic acid; Etoposide; Phosphoinositide 3-kinase; Neuronal degeneration (Kyrylenko, S. (73) 197)

Phosphoinositide
Bipolar disorder; Lithium; Valproate; Carbamazepine (Pacheco, M.A. (72) 138)

Phosphoinositide 3-kinase
Phosphatidylinositol; Okadaic acid; Etoposide; Neuronal degeneration (Kyrylenko, S. (73) 197)

Phospholipase C
Alzheimer's disease; G-protein (Young, R.A. (66) 188)

Phosphorothioate
Antisense oligonucleotide; Intracerebral injection; c-*fos* induction; Confocal microscopy (Grzanna, R. (63) 35)

Phosphorylation
Thyroid hormone; Actin; Protein kinase A; Gene expression (Sarkar, S. (67) 158)

Cultured neuron; NMDA receptor regulation; Ethanol; Fyn kinase; Csk kinase (Kalluri, H.S.G. (68) 159)

ACh receptor; Ca^{2+} entry; Protein kinase C; cAMP-dependent protein kinase (Nishizaki, T. (69) 295)

Lithium; Valproate; CREB; c-Fos; c-Jun; Bipolar disorder (Chen, B. (70) 45)

Neurofilament; Calcium channel; Depolarization; MAPK; PC12 cell (Li, B.-S. (70) 84)

Phosphatase 2A; Microtubule; Anchoring factor (Price, N.E. (73) 68)

Photoreceptor
Circadian rhythm; *Clock*; *rd* chicken; Iodopsin; Phototransduction (Larkin, P. (70) 253)

Photoreceptor, vertebrate
Cholinesterase inhibitor; In situ hybridization; Gene, fos; Mice, transgenic (Broide, R.S. (71) 137)

Phototransduction
Photoreceptor; Circadian rhythm; *Clock*; *rd* chicken; Iodopsin (Larkin, P. (70) 253)

Phytoestrogen
Paraventricular nucleus; 17β-Estradiol; ERβ; Endocrine disruptor (Patisaul, H.B. (67) 165)

Pineal
Retina; C3H/HeJ; Circadian; RNA splicing; Cryptic splice acceptor site (Roseboom, P.H. (63) 189)

Serotonin *N*-acetyltransferase; Retina; Melatonin; Molecular cloning (Craft, C.M. (65) 44)

Nitric oxide; Nitric oxide synthase; Heme oxygenase; Carbon monoxide; RT-PCR; Light/dark cycle (Jacobs, R.A. (70) 264)

Pineal gland
Melatonin; *N*-Acetyltransferase; AA-NAT; In situ hybridization; Syrian hamster (Gauer, F. (71) 87)

Exo-rhodopsin; Rhodopsin; Opsin; Circadian rhythm; Zebrafish (*Danio rerio*) (Mano, H. (73) 110)

PKC
GAP-43/B-50; SPM; Circling training; Development; Rat striatum (Paratcha, G.C. (65) 34)

PKC isoform
Protein kinase C; Hippocampal neuron; Glutamate; Calcium; Cell nucleus (Buchner, K. (64) 222)

PKN
Protein kinase; NDRF/NeuroD2; Transcription factor; Signal transduction (Shibata, H. (74) 126)

Plasticity
Amygdala; Hippocampus; JNK (Brecht, S. (68) 101)

Brain-derived neurotrophic factor; Diurnal; Promoter; Exon; Hippocampus (Berchtold, N.C. (71) 11)

PNS
p53; Transgenic mice; CNS (Tendler, Y. (72) 40)

Polyadenylation site
mRNA; 3′-Untranslated region; Alternative splicing (Kavety, B. (63) 98)

Polyclonal antibodies
5-HT_3 receptor; Immunolabelling; Presynaptic; Ligand-gated ion channel; Serotonin (Spier, A.D. (67) 221)

Polyglutamine
Ataxin-7; *SCA7*; Neurodegeneration; Nuclear inclusion; Ubiquitin (Mauger, C. (74) 35)

Polymerase chain reaction
Bisulfite; Reporter gene; Transfection; TATA box; SH-SY5Y (Andria, M.L. (70) 54)

Cocaine; Reverse transcription; mRNA; Human brain; Cocaine delirium (Chen, L. (73) 180)

Polymorphism
Serotonin transporter; Promoter; Regulation; Raphe neurons; Affective disorder (Mortensen, O.V. (68) 141)

POMC
Melanocortin receptor; Spinal cord; Sciatic nerve; Regeneration (Van der Kraan, M. (63) 276)

ACTH; Leech; MSH; Anandamide; Morphine; Immunocyte; Nitric oxide (Stefano, G.B. (63) 340)

Postsynaptic density
Brain-derived neurotrophic factor; NMDA receptor; Protein tyrosine phosphatase; trkB (Lin, S.-y. (70) 18)

PTPζ/RPTPβ; PSD-95/SAP90 family; PDZ domain (Kawachi, H. (72) 47)

mRNA; Dendrite; Local protein synthesis; Synaptic plasticity (Tian, Q.B. (72) 147)

Postsynaptic receptor
NMDA receptor; Ca^{2+} permeability; Mg^{2+} block; Adenovirus; Gene transfer; Hippocampal neuron (Yamada, N. (68) 169)

Post-transcription
Glucose transporter; Gene delivery; Gene therapy; Reporter gene (Boado, R.J. (63) 371)

TGF-β_1; APP gene expression; *Cis–trans* interaction (Amara, F.M. (71) 42)

Potassium channel gene
Chicken; Cochlea; Development; cDNA cloning (Rajeevan, M.S. (66) 83)

Potentiation
Arachidonic acid; AMPA receptor; CaMKII; Voltage-clamp; Calcium assay (Nishizaki, T. (67) 184)

POU domain
Brn-3; Neurotrophin; NGFI-A; Immediate early (Smith, M.D. (74) 117)

[^{32}P]-Protein phosphorylation
Two dimensional gel electrophoresis; Signal transduction; β-Adrenergic receptor; G protein-coupled receptor; C6 glioma (Storm, S.M. (71) 50)

P/Q channel
Lethargic (*lh/lh*) mouse; Absence seizure; Voltage-dependent calcium channel; β4 Subunit; β3 Subunit (Lin, F.-h. (71) 1)

Pre-implantation embryo
Serotonin; Tryptophan hydroxylase; Pre-neuronal embryogenesis; Gene expression; ES cell (Walther, D.J. (68) 55)

Pre-neuronal embryogenesis
Serotonin; Tryptophan hydroxylase; Gene expression; ES cell; Pre-implantation embryo (Walther, D.J. (68) 55)

Preprodynorphin
Morphine; Preproenkephalin; Kappa opioid receptor (Wang, X.-M. (66) 184)

Preproenkephalin; Temporomandibular joint; Perioral skin; Pain (Imbe, H. (67) 87)

Preproenkephalin
Morphine; Preprodynorphin; Kappa opioid receptor (Wang, X.-M. (66) 184)

Preprodynorphin; Temporomandibular joint; Perioral skin; Pain (Imbe, H. (67) 87)

Preprogalanin mRNA
Galanin; Restraint stress; Rat; CNS; Spontaneously hypertensive rat (Sweerts, B.W. (69) 113)

Preprotachykinin-A mRNA
Brain area; Young/old rat; Age (Pompei, P. (64) 132)

Presenilin 1
Notch1; PS1 knockout mice; PS1 transgenics; Primary neurons (Berezovska, O. (69) 273)

Presynaptic
5-HT_3 receptor; Polyclonal antibodies; Immunolabelling; Ligand-gated ion channel; Serotonin (Spier, A.D. (67) 221)

Primary neurons
Presenilin 1; Notch1; PS1 knockout mice; PS1 transgenics (Berezovska, O. (69) 273)

Primary sensory neuron
Histamine receptor; Peptidergic neuron; In situ hybridization; Peripheral nerve injury; Guinea pig (Kashiba, H. (66) 24)

Promoter; PC12 cell; Nerve growth factor; Cerebral cortex; Carboxypeptidase A (Miyasaka, N. (69) 62)

Prion
Scrapie; Cytokine; Astrocyte; NF-κB; Reactive oxygen species (Kim, J.-I. (73) 17)

Prion, PrP^C
$Prnp^{0/0}$ mice; Memory; Behavior (Roesler, R. (71) 349)

$Prnp^{0/0}$ mice
Prion, PrP^C; Memory; Behavior (Roesler, R. (71) 349)

Process outgrowth
GAP-43; mRNA stability; RNA-binding protein; PC12 cell (Neve, R.L. (65) 52)

Proenkephalin
Δ^9-Tetrahydrocannabinol; Cannabinoid receptor; mRNA; [^{35}S]GTPγ binding; Caudate–putamen (Corchero, J. (67) 148)

Progenitor cell
Astrocyte; Oligodendrocyte; Glutamate homeostasis (Domercq, M. (67) 296)

Progesterone receptor
Dihydrotestosterone; Androgen receptor; Peripheral myelin protein Po; Schwann cell; Sciatic nerve (Magnaghi, V. (70) 36)

Progestin
Estrogen; Macaque; Serotonin receptor; Hypothalamus (Gundlah, C. (63) 325)

Programmed cell death
Ischemia; c-Jun; Okadaic acid (Walton, M. (63) 198)

Prolonged QT
Vesicular monoamine transporter 2; Transgenic mouse; Electrocardiogram; Telemetry (Itokawa, K. (71) 354)

Promoter
Receptor for advanced glycated end products (RAGE); Transcription factor binding site; DNA methylation; Brain (Tohgi, H. (65) 124)

AK1; Electrophoretic mobility shift assay; Neurite outgrowth; NeuroD; PC12; Transactivation (Noma, T. (67) 53)

Gene expression; Silencer; NRSE; Gamma-aminobutyric acid; Benzodiazepine (Mu, W. (67) 137)

Synapsin II; Gene expression; Transgenic mouse; Transcription (Chin, L.-S. (67) 239)

Serotonin transporter; Regulation; Raphe neurons; Polymorphism; Affective disorder (Mortensen, O.V. (68) 141)

Kappa opioid receptor; Transgenic mouse; Gene expression; Embryo (Hu, X. (69) 35)

PC12 cell; Nerve growth factor; Cerebral cortex; Primary sensory neuron; Carboxypeptidase A (Miyasaka, N. (69) 62)

Glial cell line-derived neurotrophic factor; Neurotrophin; cDNA (Baecker, P.A. (69) 209)

NeuroD (BETA2/BHF1); Neuronal development; Autoactivation; Basic helix-loop-helix (Miyachi, T. (69) 223)

Dopamine receptor; Corticosterone; Caudate–putamen; Nucleus accumbens; Transcription (Lammers, C.-H. (69) 281)

Amyloid precursor protein gene; DNA methylcytosine; Brain (Tohgi, H. (70) 288)

Brain-derived neurotrophic factor; Diurnal; Exon; Hippocampus; Plasticity (Berchtold, N.C. (71) 11)

Gene structure; GA repeat; Microsatellite; Gamma-aminobutyric acid (Mu, W. (73) 171)

Promoter activation
Myelin basic protein; Thyroid hormone; 9-*cis*-Retinoic acid; Nuclear receptor (Pombo, P.M.G. (64) 92)

Promoter activity
Homeobox; NCAM; Mouse; *Otx2* (Nguyen Ba-Charvet, K.T. (67) 292)

Promoter analysis
Neuropeptide; Somatostatin receptor; Seizure; Transcription factor (Calbet, M. (72) 55)

Promoter region
Aromatase; Transcriptional regulation; *Cis*-acting element (Honda, S.-i. (66) 122)

Proopiomelanocortin
Corticotropin-releasing hormone; Messenger RNA; Repeated stress; Immobilization; Adaptation (Škultétyová, I. (68) 190)

Menopause; Hypothalamus; Luteinizing hormone; Estrogen; β-Endorphin; Aging (Abel, T.W. (69) 202)

Enkephalin; β-Endorphin; μ-Opioid receptor; Arcuate nucleus; Reproduction (Bouret, S. (70) 155)

Proprotein convertase
Proteolytic processing; In situ hybridization; Neuropeptides; Frog brain (Vieau, D. (63) 1)

Protection
Ischemia; Hypothermia; Neurotrophin; Gene expression; Brain (Boris-Möller, F. (63) 163)

Protein
NMDA receptor; Subunit; Hippocampus; Development; Lead (Nihei, M.K. (66) 42)

Protein 4.1
Membrane skeleton; Comprehensive cDNA analysis; Brain (Yamakawa, H. (70) 197)

Protein kinase
PKN; NDRF/NeuroD2; Transcription factor; Signal transduction (Shibata, H. (74) 126)

Protein kinase A
Thyroid hormone; Actin; Phosphorylation; Gene expression (Sarkar, S. (67) 158)

Protein kinase C
PKC isoform; Hippocampal neuron; Glutamate; Calcium; Cell nucleus (Buchner, K. (64) 222)

Exocytosis; Calcium; Cytoskeleton; Noradrenaline (Danks, K. (64) 236)

Arachidonic acid; Nicotinic ACh receptor; Synaptic transmission; Long-term potentiation; Hippocampus (Nishizaki, T. (69) 263)

ACh receptor; Ca^{2+} entry; cAMP-dependent protein kinase; Phosphorylation (Nishizaki, T. (69) 295)

Sphingosine 1-phosphate; Fibroblast growth factor-2; Early growth response-1; GTP-binding protein; Pertussis toxin (Sato, K. (74) 182)

Protein kinase C activity
G-transducer protein; IgGs to Gα subunit; Transport of proteins across neural membrane; Antinociception (Garzón, J. (65) 151)

Protein synthesis
Calcium; Cortex; Endoplasmic reticulum; gadd34; Hippocampus; Thapsigargin; Transient ischemia (Doutheil, J. (63) 225)

Protein tyrosine phosphatase
PC12; Striatum; Cyclic AMP; Cyclic AMP-dependent protein kinase (Okamura, A. (67) 1)

Brain-derived neurotrophic factor; Postsynaptic density; NMDA receptor; trkB (Lin, S.-y. (70) 18)

Protein tyrosine phosphorylation
Recombinant $GABA_A$ receptor; Tyrosine kinase; Genistein; Lavendustin A; Daidzein (Huang, R.-Q. (67) 177)

Proteolipid protein
Serine protease; Development (Yamanaka, H. (71) 217)

Proteolytic processing
Proprotein convertase; In situ hybridization; Neuropeptides; Frog brain (Vieau, D. (63) 1)

PSD-95/SAP90 family
PTPζ/RPTPβ; PDZ domain; Postsynaptic density (Kawachi, H. (72) 47)

Pseudogene
Receptor; GPCR; Intronless; Chromosome; Northern blot (Sawzdargo, M. (64) 193)

PS1 knockout mice
Presenilin 1; Notch1; PS1 transgenics; Primary neurons (Berezovska, O. (69) 273)

PS1 transgenics
Presenilin 1; Notch1; PS1 knockout mice; Primary neurons (Berezovska, O. (69) 273)

PTPζ/RPTPβ
PSD-95/SAP90 family; PDZ domain; Postsynaptic density (Kawachi, H. (72) 47)

Ptx3
Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Catecholamine; Nurr1; Antigen retrieval (Schimmel, J.J. (74) 1)

Purinergic transmission
Ecto-ATPase; Ecto-ATPDase; Cochlea; Brain; Alternative splicing (Vlajkovic, S.M. (73) 85)

Purkinje cell
Glutamate transporter; Cerebellum; cDNA; Ligand-gated chloride channel (Lin, C.-L.G. (63) 174)

Eph receptor; Corticospinal tract; Hippocampus; Motor cortex (Ciossek, T. (74) 231)

$P2X_4$
P2X receptor; Ion channel; Alternative splicing; ATP; Oocyte (Townsend-Nicholson, A. (64) 246)

P2X receptor
$P2X_4$; Ion channel; Alternative splicing; ATP; Oocyte (Townsend-Nicholson, A. (64) 246)

Q

Quinone
Tryptophan hydroxylase; L-DOPA; Redox-cycling; Serotonin neuron (Kuhn, D.M. (73) 78)

R

Radioligand binding
Chronic ethanol; $GABA_A$ receptor; Anti-α_1 antibody; Immunoprecipitation (Mehta, A.K. (67) 194)

Raphe neurons
Serotonin transporter; Promoter; Regulation; Polymorphism; Affective disorder (Mortensen, O.V. (68) 141)

Rat
Circadian rhythm; In situ hybridization histochemistry; Vasoactive intestinal polypeptide; VPAC2 receptor (Shinohara, K. (63) 262)

Hypoglossal nerve; EST; Nerve regeneration; Nerve injury (Tanabe, K. (64) 34)

Synaptojanin; Synapse; Endocytosis; Brain; In situ hybridization histochemistry (Kudo, M. (64) 179)

Gene; Iron; Microglia; Neuron; Oligodendrocyte (Hansen, T.M. (65) 186)

Development; $GABA_A$ receptor; In situ hybridisation; mRNA transport (Poulter, M.O. (69) 44)

Galanin; Restraint stress; Preprogalanin mRNA; CNS; Spontaneously hypertensive rat (Sweerts, B.W. (69) 113)

Striatum; Movement; Neuropeptide; Treadmill (Liste, I. (70) 74)

Ischemic preconditioning; p53; $p21^{WAF1/Cip1}$; PAG608/Wig-1; DNA damage (Tomasevic, G. (70) 304)

Blot overlay; Brain spectrin; Cytoskeleton; GAP-43; Microtubule; Sedimentation assay; SpIIΣ1 (Riederer, B.M. (71) 345)

Suprachiasmatic nucleus; mt_1 Melatonin receptor mRNA; Diurnal rhythm; Competitive reverse transcription–polymerase chain reaction (Sugden, D. (72) 176)

Calbindin; Hypothalamus; Development; mRNA (Stuart, E. (73) 60)

Glutamate receptor; Oligodendrocyte; Deaminase; Bovine (De Zulueta, M.P. (73) 104)

Calmodulin gene expression; In situ hybridization; Water deprivation; Supraoptic nucleus; Paraventricular hypothalamic nucleus (Palfi, A. (74) 111)

Rat and guinea-pig brain
G-protein activation; $5\text{-}HT_{1A}$ receptor; $5\text{-}HT_{1B}$ receptor; Sumatriptan dimer; [^{35}S]GTPγS binding and autoradiography (Dupuis, D.S. (67) 107)

Rat brain
Cell culture; Nicotinic receptor; Acetylcholine; Neuron; Cortex; Brainstem; α4/β2 (Dávila-García, M.I. (66) 14)

Neuropeptide; Receptor; Glycosylation; Antipeptide antiserum; Immunochemistry (Hervieu, G. (71) 290)

Rat cerebral cortex
Isopentenyl diphosphate isomerase; Hypoglossal nerve regeneration; Brain development; Differential display screening; Myelination (Morihara, T. (67) 231)

Rat CNS
GABA; $GABA_{B2}$ protein; In situ hybridization (Durkin, M.M. (71) 185)

Rats
Ethanol; Behavioral dependence; Brain; Glycolysis; Glucose transporter (Eravci, M. (65) 103)

Rat striatum
GAP-43/B-50; PKC; SPM; Circling training; Development (Paratcha, G.C. (65) 34)

***rd* chicken**
Photoreceptor; Circadian rhythm; *Clock*; Iodopsin; Phototransduction (Larkin, P. (70) 253)

Reactive astrocyte
Gliosis; Molecular cloning; CREB/ATF; In situ hybridization (Honma, Y. (69) 93)

Neural cell adhesion molecule; Human optic nerve; Lamina cribrosa; Glaucoma (Ricard, C.S. (74) 69)

Reactive glia
NF-κB; p65; Stroke; Middle cerebral artery occlusion; Penumbra (Gabriel, C. (65) 61)

Reactive oxygen intermediate
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Reactive oxygen species
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Receptor
Retina; Retinal pigment epithelium; Melatonin; *Xenopus laevis* (Wiechmann, A.F. (63) 297)

GPCR; Intronless; Pseudogene; Chromosome; Northern blot (Sawzdargo, M. (64) 193)

Neuropeptide; Glycosylation; Anti-peptide antiserum; Rat brain; Immunochemistry (Hervieu, G. (71) 290)

Stimulus-transcription coupling; Cycloheximide; Lactacystin; Ascorbic acid; Catecholamine (Schmidt, J. (73) 50)

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Receptor autoradiography
Antisense; Adenosine; Striatum; Corticostriatal; In situ hybridization (Phan, T.A. (72) 226)

Receptor down-regulation
Excitatory amino acid receptors; Glutamate receptors; Receptor modulation; Osmotic regulation; Vasopressin; Magnocellular neuroendocrine cells (Currás-Collazo, M.C. (70) 187)

Receptor for advanced glycated end products (RAGE)
Promoter; Transcription factor binding site; DNA methylation; Brain (Tohgi, H. (65) 124)

Receptor for advanced glycation end products
Secreted isoform; Amyloid-β protein; Alzheimer's disease; Scavenger receptor (Malherbe, P. (71) 159)

Receptor-mediated endocytosis
Neurotensin receptor; Gene transfer; Gene therapy; Transgenic animal (Martinez-Fong, D. (69) 249)

Receptor modulation
Excitatory amino acid receptors; Glutamate receptors; Receptor down-regulation; Osmotic regulation; Vasopressin; Magnocellular neuroendocrine cells (Currás-Collazo, M.C. (70) 187)

Receptor purification
GABA; $GABA_B$ receptor; Baclofen; Cerebellum; Inhibitory amino acid receptor; CGP 62349 (Keir, M.J. (71) 279)

Recombinant $GABA_A$ receptor
Protein tyrosine phosphorylation; Tyrosine kinase; Genistein; Lavendustin A; Daidzein (Huang, R.-Q. (67) 177)

Redox-cycling
Tryptophan hydroxylase; L-DOPA; Quinone; Serotonin neuron (Kuhn, D.M. (73) 78)

Regeneration
Melanocortin receptor; Spinal cord; Sciatic nerve; POMC (Van der Kraan, M. (63) 276)

GFRα; Hypoglossal; Cell death; Axotomy (Tsujino, H. (70) 298)

Regulation
Serotonin transporter; Promoter; Raphe neurons; Polymorphism; Affective disorder (Mortensen, O.V. (68) 141)

***cis*-Regulatory element**
Dopamine transporter; Human; Transcription regulation; Nurr1; Gene (Sacchetti, P. (74) 167)

Rel
Electrophoretic mobility shift assay; NF-κB; Transcription factor; UV-crosslinking (Moerman, A.M. (67) 303)

Repeated stress
Corticotropin-releasing hormone; Proopiomelanocortin; Messenger RNA; Immobilization; Adaptation (Škultétyová, I. (68) 190)

Reperfusion
Blood–brain barrier; Ischemia; Cerebral blood flow; Mouse; Middle cerebral artery occlusion (Mao, Y. (63) 366)

Blood–brain barrier; Ischemia; Middle cerebral artery occlusion; Temporary; Tumor necrosis factor-alpha (Yang, G.-Y. (69) 135)

Reperfusion injury
Angiogenic factor; Vascular permeability factor (Pichiule, P. (74) 83)

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Reporter gene
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Polymerase chain reaction; Bisulfite; Transfection; TATA box; SH-SY5Y (Andria, M.L. (70) 54)

Representational difference analysis
Sex development; Brain; Mouse; mRNA differential display; Signal peptide differential display (Eriksson, A. (74) 91)

Repressor
AP-2β; D_{1A} dopamine receptor; Gene regulation; Silencer; Differentiation (Takeuchi, S. (74) 208)

Reproduction
Testosterone; Estrogen; Menopause; Hypothalamus (Danzer, S.C. (66) 200)

Proopiomelanocortin; Enkephalin; β-Endorphin; μ-Opioid receptor; Arcuate nucleus (Bouret, S. (70) 155)

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REST
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Restraint stress
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Reticular thalamic nucleus
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Retina
Pineal; C3H/HeJ; Circadian; RNA splicing; Cryptic splice acceptor site (Roseboom, P.H. (63) 189)

Retinal pigment epithelium; Melatonin; Receptor; *Xenopus laevis* (Wiechmann, A.F. (63) 297)

Serotonin *N*-acetyltransferase; Pineal; Melatonin; Molecular cloning (Craft, C.M. (65) 44)

Retinal ganglion cell
Apoptosis; Caspase inhibitor; Axotomy; Microglia (Chaudhary, P. (67) 36)

Retinal microvasculature
Blood–brain barrier; Blood–retinal barrier; Glut1 mRNA; Glut3 mRNA; Competitive PCR; Brain microvessel; Capillary density; Hypoxia; VEGF (Badr, G.A. (64) 24)

Retinal pigment epithelium
Retina; Melatonin; Receptor; *Xenopus laevis* (Wiechmann, A.F. (63) 297)

9-*cis*-Retinoic acid
Myelin basic protein; Promoter activation; Thyroid hormone; Nuclear receptor (Pombo, P.M.G. (64) 92)

Retrograde labeling
Diffuse axonal injury; Immediate early gene; Antisense targeting (Kreutz, M.R. (69) 232)

Retrograde tracing
Morphine; Sensitization; Dorsal striatum; C-*fos*; In situ hybridization (Erdtmann-Vourliotis, M. (72) 1)

Ret-tyrosine kinase
GDNF; Neurturin; GPI-linked receptor; GFRα-1 and GFRα-2; Development; Gene expression; In situ hybridization histochemistry (Burazin, T.C.D. (73) 151)

Reverse transcription
Cocaine; Polymerase chain reaction; mRNA; Human brain; Cocaine delirium (Chen, L. (73) 180)

Reverse transcription-PCR
Neurotrophin-3; Gene expression; Phorbol ester; AP-1; Vascular smooth muscle cell (Nemoto, K. (68) 186)

Rhodopsin
Circadian rhythms; Cone photoreceptors; Messenger RNA; Rod photoreceptors; Ultraviolet-sensitive opsin (Von Schantz, M. (72) 108)

Exo-rhodopsin; Opsin; Pineal gland; Circadian rhythm; Zebrafish (*Danio rerio*) (Mano, H. (73) 110)

Rho GTPase
In situ hybridization; Brain; Development (Olenik, C. (70) 9)

Rho subfamily
Small GTP-binding protein; cDNA cloning; RNA blot hybridization; In situ hybridization; Genomic organization; Chromosomal mapping (Nishi, M. (67) 74)

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AT_1 receptor; Antisense oligonucleotide; Translation arrest (Ho, S.P. (65) 23)

Risperidone
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Ritanserin
Dopamine; Substance P; Basal ganglia; α-Methyl-*p*-tyrosine (Gresch, P.J. (67) 190)

RNA-binding protein
GAP-43; mRNA stability; Process outgrowth; PC12 cell (Neve, R.L. (65) 52)

RNA blot hybridization
Small GTP-binding protein; Rho subfamily; cDNA cloning; In situ hybridization; Genomic organization; Chromosomal mapping (Nishi, M. (67) 74)

RNA editing
Glutamate receptor; AMPA receptor; Goldfish (Li, Z. (67) 211)

RNA splicing
Pineal; Retina; C3H/HeJ; Circadian; Cryptic splice acceptor site (Roseboom, P.H. (63) 189)

mRNA
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Nicotinic acetylcholine receptor; Alzheimer's disease; Human brain; RT-PCR (Hellström-Lindahl, E. (66) 94)

Δ^9-Tetrahydrocannabinol; Proenkephalin; Cannabinoid receptor; [^{35}S]GTPγ binding; Caudate–putamen (Corchero, J. (67) 148)

Urocortin; Neuropeptide; CRF-binding protien; In situ (Cepoi, D. (68) 109)

Dendrite; Local protein synthesis; Postsynaptic density; Synaptic plasticity (Tian, Q.B. (72) 147)

Calbindin; Hypothalamus; Development; Rat (Stuart, E. (73) 60)

Cocaine; Reverse transcription; Polymerase chain reaction; Human brain; Cocaine delirium (Chen, L. (73) 180)

Affective disorder; Estrogen; In situ hybridization; Limbic system (Österlund, M.K. (74) 158)

mRNA differential display
Sex development; Brain; Mouse; Signal peptide differential display; Representational difference analysis (Eriksson, A. (74) 91)

mRNA distribution
G protein-coupled receptor; Ortholog (Lee, D.K. (71) 96)

c-*fos* mRNA expression
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mRNA expression
Cerebellar granule cells; Secretogranin-II; BDNF; Calcium (Fujita, Y. (63) 316)

Neurotrauma; iNOS; ICE; IL-1β; Immunoreactivity (Knerlich, F. (68) 73)

Bdm1; Brain development; cDNA cloning; In situ hybridization (Yamauchi, Y. (68) 149)

mRNA in situ hybridization
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mRNA stability
GAP-43; RNA-binding protein; Process outgrowth; PC12 cell (Neve, R.L. (65) 52)

mRNA transport
Development; $GABA_A$ receptor; In situ hybridisation; Rat (Poulter, M.O. (69) 44)

Rod photoreceptors
Circadian rhythms; Cone photoreceptors; Messenger RNA; Rhodopsin; Ultraviolet-sensitive opsin (Von Schantz, M. (72) 108)

Rostro-caudal pattern
Angiotensin; In situ hybridization; Oligodeoxynucleotide; Core region (Barth, S.W. (64) 151)

RPA
BDNF; Neuropathic pain; NGF; NT-3; Spinal nerve ligation (Shen, H. (64) 186)

RT-PCR
Estrogen; Striatum; Development; Aromatase; Immunocytochemsitry (Küppers, E. (63) 184)

Nicotinic acetylcholine receptor; Alzheimer's disease; Human brain; mRNA (Hellström-Lindahl, E. (66) 94)

Pineal; Nitric oxide; Nitric oxide synthase; Heme oxygenase; Carbon monoxide; Light/dark cycle (Jacobs, R.A. (70) 264)

Adenosine; Adenosine transport; ENT2; *Ei* nucleoside transporter; In situ hybridization; Nitrobenzylthioinosine (Anderson, C.M. (70) 293)

Serotonin transporters; Uptake parameters; Pharmacological profile; SSRI; TCA (Mortensen, O.V. (71) 120)

Substantia nigra; Brain-derived neurotrophic factor; Kainic acid; Exon regulation; In situ hybridization (Aliaga, E. (71) 341)

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SAPK / JNK
SEK1; Immunohistochemistry; In situ hybridization; MAP kinase; Apoptosis (Lee, J.-K. (66) 133)

Sarcosine
Glycine; Transporter; *Homo sapiens* (Gallagher, M.J. (70) 101)

S100β
Bcl-2; Neurons; Apoptosis (Wang, S. (70) 167)

SCA7
Ataxin-7; Neurodegeneration; Nuclear inclusion; Polyglutamine; Ubiquitin (Mauger, C. (74) 35)

Scavenger receptor
Receptor for advanced glycation end products; Secreted isoform; Amyloid-β protein; Alzheimer's disease (Malherbe, P. (71) 159)

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Sciatic nerve
Melanocortin receptor; Spinal cord; POMC; Regeneration (Van der Kraan, M. (63) 276)

Dihydrotestosterone; Androgen receptor; Progesterone receptor; Peripheral myelin protein Po; Schwann cell (Magnaghi, V. (70) 36)

Scrapie
Prion; Cytokine; Astrocyte; NF-κB; Reactive oxygen species (Kim, J.-I. (73) 17)

Season
Northern blot; Neuropeptide; Feeding; Sex; Fish (Peyon, P. (74) 190)

Secreted isoform
Receptor for advanced glycation end products; Amyloid-β protein; Alzheimer's disease; Scavenger receptor (Malherbe, P. (71) 159)

Secretogranin-II
Cerebellar granule cells; BDNF; Calcium; mRNA expression (Fujita, Y. (63) 316)

Sedimentation assay
Blot overlay; Brain spectrin; Cytoskeleton; GAP-43; Microtubule; Rat; SpIIΣ1 (Riederer, B.M. (71) 345)

Seizure
Transcription factor; Neuronal damage; Development (Dubé, C. (63) 139)

Kainic acid; p53; DNA-binding; Neuronal apoptosis; Cycloheximide (Liu, W. (63) 248)

Strain; Apoptosis; TUNEL; Excitotoxicity (Faherty, C.J. (70) 159)

Neuropeptide; Somatostatin receptor; Promoter analysis; Transcription factor (Calbet, M. (72) 55)

SEK1
SAPK/JNK; Immunohistochemistry; In situ hybridization; MAP kinase; Apoptosis (Lee, J.-K. (66) 133)

Semliki Forest Virus
Metabotropic glutamate receptor; Splice variant; Cloning; L(+)-2-Amino-4-phosphonobutyric acid (Malherbe, P. (67) 201)

Sensitization
Morphine; Dorsal striatum; C-*fos*; In situ hybridization; Retrograde tracing (Erdtmann-Vourliotis, M. (72) 1)

Sensory neuron
CT-1; IL-11; Soluble receptor; Neurotrophic; Neuropoietic cytokine (Thier, M. (64) 80)

Septum
Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin-3; Acetylcholine; trkA; Alzheimer's disease; $p75^{NTR}$ (French, S.J. (67) 124)

Sequence
PACAP; Neuropeptide; In situ hybridization; Chicken brain (Peeters, K. (71) 244)

Sequence analysis
Transgenic mice; Gene expression; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Serine protease
Proteolipid protein; Development (Yamanaka, H. (71) 217)

Serotonin
5-HT_3 receptor; Polyclonal antibodies; Immunolabelling; Presynaptic; Ligand-gated ion channel (Spier, A.D. (67) 221)

Tryptophan hydroxylase; Pre-neuronal embryogenesis; Gene expression; ES cell; Pre-implantation embryo (Walther, D.J. (68) 55)

Transporter; Gustatory; Taste bud; Vallate papilla; Immunocytochemistry (Ren, Y. (74) 221)

Serotonin *N*-acetyltransferase
Pineal; Retina; Melatonin; Molecular cloning (Craft, C.M. (65) 44)

Serotonin neuron
Tryptophan hydroxylase; L-DOPA; Quinone; Redox-cycling (Kuhn, D.M. (73) 78)

Serotonin receptor
Estrogen; Progestin; Macaque; Hypothalamus (Gundlah, C. (63) 325)

Basal ganglia; Parkinson's disease; Dopamine receptor; Substance P; In situ hybridization (Gresch, P.J. (70) 125)

Cochlea; Organ of Corti; Spiral ganglion; Lateral wall (Oh, C.K. (70) 135)

Hippocampus; Aged rat; Antidepressant (Yau, J.L.W. (70) 282)

Serotonin transporter
5-hydroxytryptamine; Testosterone; Estrogen; Dorsal raphe nucleus (McQueen, J.K. (63) 241)

Superior cervical ganglion; Norepinephrine transporter; In situ hybridization (Nishimura, M. (67) 82)

Promoter; Regulation; Raphe neurons; Polymorphism; Affective disorder (Mortensen, O.V. (68) 141)

$5\text{-Hydroxytryptamine}_{2A}$ receptor; Estradiol-17β; Tamoxifen; Estradiol receptor (Sumner, B.E.H. (73) 119)

Serotonin transporters
Uptake parameters; Pharmacological profile; SSRI; TCA; RT-PCR (Mortensen, O.V. (71) 120)

Serum-free
Basic fibroblast growth factor; Fibroblast growth factor receptor; Astrocyte; Glucose-free; Glutamate (Liu, X. (71) 171)

Sex
Northern blot; Neuropeptide; Feeding; Season; Fish (Peyon, P. (74) 190)

Sex development
Brain; Mouse; mRNA differential display; Signal peptide differential display; Representational difference analysis (Eriksson, A. (74) 91)

[^{35}S]GTPγ binding
Δ^9-Tetrahydrocannabinol; Proenkephalin; Cannabinoid receptor; mRNA; Caudate–putamen (Corchero, J. (67) 148)

[^{35}S]GTPγS binding and autoradiography
G-protein activation; 5-HT_{1A} receptor; 5-HT_{1B} receptor; Sumatriptan dimer; Rat and guinea-pig brain (Dupuis, D.S. (67) 107)

SHH
Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; Gli; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

SH-SY5Y
Polymerase chain reaction; Bisulfite; Reporter gene; Transfection; TATA box (Andria, M.L. (70) 54)

Signal peptide differential display
Sex development; Brain; Mouse; mRNA differential display; Representational difference analysis (Eriksson, A. (74) 91)

Signal sequence
$GABA_B$ receptor; cDNA clone; Brain-specific (Makoff, A. (64) 137)

Signal transduction
[^{32}P]-Protein phosphorylation; Two dimensional gel electrophoresis; β-Adrenergic receptor; G protein-coupled receptor; C6 glioma (Storm, S.M. (71) 50)

PKN; Protein kinase; NDRF/NeuroD2; Transcription factor (Shibata, H. (74) 126)

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Gene expression; Promoter; NRSE; Gamma-aminobutyric acid; Benzodiazepine (Mu, W. (67) 137)

AP-2β; D_{1A} dopamine receptor; Gene regulation; Repressor; Differentiation (Takeuchi, S. (74) 208)

Sindbis virus
Gene transfer; Neuron; Glia; EGFP; *LacZ* (Gwag, B.J. (63) 53)

Single-cell RT-PCR
Brain macrophages; Alternative splicing; Interleukin-15 (Prinz, M. (63) 155)

Patch-clamp; Kv1; Kv2; Pharmacology (Seifert, G. (74) 55)

Single channel
Patch clamp; IPSC; Deactivation; Alpha-5 subtype (Burgard, E.C. (73) 28)

Sleep deprivation
Adenosine; Basal forebrain; In vivo microdialysis; c-Fos; AP1 binding (Basheer, R. (73) 1)

Small GTP-binding protein
Rho subfamily; cDNA cloning; RNA blot hybridization; In situ hybridization; Genomic organization; Chromosomal mapping (Nishi, M. (67) 74)

SNS/PN3
GDNF; NGF; NaN; IB4; Dorsal root ganglia; Ion channel (Fjell, J. (67) 267)

Soluble extracellular fragment of receptor
Metabotropic glutamate receptor; Alternative slicing (Zhu, H. (73) 93)

Soluble guanylate cyclase
Differentiation; Nitric oxide; Dominant negative mutant (Phung, Y.T. (64) 165)

Soluble receptor
CT-1; IL-11; Neurotrophic; Neuropoietic cytokine; Sensory neuron (Thier, M. (64) 80)

Somatomedin
IGF mRNA; Neurotrophic factor; Nerve regeneration; Neuromuscular junction (Pu, S.-F. (63) 207)

Somatosensory
Respiration; Cardiovascular; Nociception; Viscerosensory (Guthmann, A. (74) 145)

Somatostatin
Inhibin; Growth hormone; Growth hormone-releasing hormone; Hypothalamus (Carro, E. (66) 191)

Somatostatin receptor
Glioma; Glial tumor; Astrocyte; SST2 (Held-Feindt, J. (64) 101)

Neuropeptide; Promoter analysis; Seizure; Transcription factor (Calbet, M. (72) 55)

Sonic hedgehog
Transgenic mice; Gene expression; Sequence analysis; Alkaline phosphatase; SHH; Gli; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Spatial learning
Neurodegeneration; Transgenic mouse; Alzheimer's disease; Amyloid precursor protein; Gene; Neurotoxicity; Cognition (Berger-Sweeney, J. (66) 150)

Sphingosine 1-phosphate
Fibroblast growth factor-2; Early growth response-1; GTP-binding protein; Pertussis toxin; Protein kinase C (Sato, K. (74) 182)

SpIIΣ1
Blot overlay; Brain spectrin; Cytoskeleton; GAP-43; Microtubule; Rat; Sedimentation assay (Riederer, B.M. (71) 345)

Spinal cord
Melanocortin receptor; Sciatic nerve; POMC; Regeneration (Van der Kraan, M. (63) 276)

Zinc metallopeptidase; Neutral endopeptidase; Endothelin-converting enzyme; Medulla (Valdenaire, O. (64) 211)

Spinal nerve ligation
BDNF; Neuropathic pain; NGF; NT-3; RPA (Shen, H. (64) 186)

Spiral ganglion
Serotonin receptor; Cochlea; Organ of Corti; Lateral wall (Oh, C.K. (70) 135)

Splice variant
G protein-coupled receptor; Degenerate PCR; Truncated receptor; Donor/acceptor site; HA epitope (Olsen, M.A. (64) 255)

Metabotropic glutamate receptor; Cloning; L(+)-2-Amino-4-phosphonobutyric acid; Semliki Forest Virus (Malherbe, P. (67) 201)

Splicing
Thyroid hormone; Gene regulation; Differential display; SWAP gene (Cuadrado, A. (71) 332)

SPM
GAP-43/B-50; PKC; Circling training; Development; Rat striatum (Paratcha, G.C. (65) 34)

Spontaneous expression
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB, fosB; NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Transcription regulation (Guido, M.E. (67) 247)

Spontaneously hypertensive rats
Sympathetic nerve activity; Hypertension; c-*fos*; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Spontaneously hypertensive rat
Galanin; Restraint stress; Preprogalanin mRNA; Rat; CNS (Sweerts, B.W. (69) 113)

SSRI
Serotonin transporters; Uptake parameters; Pharmacological profile; TCA; RT-PCR (Mortensen, O.V. (71) 120)

SST2
Somatostatin receptor; Glioma; Glial tumor; Astrocyte (Held-Feindt, J. (64) 101)

Stimulus-transcription coupling
Receptor; Cycloheximide; Lactacystin; Ascorbic acid; Catecholamine (Schmidt, J. (73) 50)

Store-operated Ca^{2+} channel
trp; Hippocampus; Thapsigargin (Mizuno, N. (64) 41)

Strain
Seizure; Apoptosis; TUNEL; Excitotoxicity (Faherty, C.J. (70) 159)

Stress
Depression; mRNA; Tyrosine hydroxylase; Dopamine β-hydroxylase; Neuropeptide Y; Adrenal; Dopaminergic neuron (Serova, L. (63) 133)

Spontaneously hypertensive rats; Sympathetic nerve activity; Hypertension; c-*fos*; Corticotropin-releasing factor; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Oligodendrocyte; Oxidative stress; p53; Subcellular localization; Suppressor gene; Oligodendroglia; H_2O_2 (Uberti, D. (65) 167)

Corticotropin-releasing hormone; Vasopressin; Hypothalamic paraventricular nucleus; Heteronuclear RNA (Ma, X.-M. (68) 129)

Heat shock protein; Chaperone; Learning; Cerebellum; Synaptic plasticity (Ambrosini, M.V. (70) 164)

Stress-activated kinase
c-Jun; Tau (Kumagae, Y. (67) 10)

Stress-activated protein kinase/c-Jun N-terminal kinase
Brain expression; Immunohistochemistry; Subcellular localization; High SAPK activity (Lee, J.-K. (70) 116)

Stress protein
Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Stroke; Heme oxygenase; Heat shock protein; HSP70; Oxidative stress; Anti-oxidant (Turner, C.P. (65) 87)

A170; MSP23; Oxidative stress; Kainic acid; Excitotoxicity; Stress response (Nakaso, K. (69) 155)

Stress response
A170; MSP23; Oxidative stress; Kainic acid; Excitotoxicity; Stress protein (Nakaso, K. (69) 155)

Striatum
Estrogen; Development; Aromatase; RT-PCR; Immunocytochemsitry (Küppers, E. (63) 184)

Neurotensin; Dopamine; Extrapyramidal; Caudate nucleus; Parkinson's disease (Hanson, G.R. (66) 111)

Enkephalin; Hamster; Adrenal medulla; Mifepristone (RU 486); Glucocorticoid (Jimenez, R. (66) 179)

PC12; Protein tyrosine phosphatase; Cyclic AMP; Cyclic AMP-dependent protein kinase (Okamura, A. (67) 1)

μ-Opioid receptor mRNA; Amphetamine behavioral sensitization; Non-radioactive in situ hybridization; Nucleus accumbens shell (Vecchiola, A. (69) 1)

NGF; BDNF; NT-3; *trk*; Excitatory amino acid (Canals, J.M. (69) 242)

Movement; Neuropeptide; Treadmill; Rat (Liste, I. (70) 74)

Antisense; Adenosine; Corticostriatal; In situ hybridization; Receptor autoradiography (Phan, T.A. (72) 226)

Stroke
NF-κB; Ischemia; Transcription factor; Electrophoretic mobility shift assay (Zhang, S. (63) 121)

NF-κB; p65; Middle cerebral artery occlusion; Reactive glia; Penumbra (Gabriel, C. (65) 61)

Subarachnoid hemorrhage; Intracerebral hemorrhage; Vasospasm; Heme oxygenase; Heat shock protein; HSP70; Stress protein; Oxidative stress; Anti-oxidant (Turner, C.P. (65) 87)

Brain; Ischemia; Neurological; Growth hormone; Treatment (Scheepens, A. (68) 88)

Subarachnoid hemorrhage
Intracerebral hemorrhage; Vasospasm; Stroke; Heme oxygenase; Heat shock protein; HSP70; Stress protein; Oxidative stress; Anti-oxidant (Turner, C.P. (65) 87)

Subcellular localization
Oligodendrocyte; Oxidative stress; p53; Suppressor gene; Oligodendroglia; Stress; H_2O_2 (Uberti, D. (65) 167)

Stress-activated protein kinase/c-Jun N-terminal kinase; Brain expression; Immunohistochemistry; High SAPK activity (Lee, J.-K. (70) 116)

Substance abuse
Morphine; G protein; Agonist (Zhang, P. (72) 195)

Substance P
Islet amyloid polypeptide; Calcitonin gene-related peptide; Gene knock out; Dorsal root ganglion (DRG) neurons; Paw formalin test; Adjuvant-induced inflammation (Gebre-Medhin, S. (63) 180)

Dopamine; Basal ganglia; α-Methyl-*p*-tyrosine; Ritanserin (Gresch, P.J. (67) 190)

Kyotorphin; Nociceptor endings (Inoue, M. (69) 302)

Basal ganglia; Parkinson's disease; Serotonin receptor; Dopamine receptor; In situ hybridization (Gresch, P.J. (70) 125)

Aggressive behavior; In situ hybridization; γ-Aminobutyric acid; Glutamate; Medial hypothalamus; Immunocytochemistry; NK-1 (Yao, R. (71) 149)

Substantia nigra
Brain-derived neurotrophic factor; Kainic acid; Exon regulation; In situ hybridization; RT-PCR (Aliaga, E. (71) 341)

Subunit
NMDA receptor; Protein; Hippocampus; Development; Lead (Nihei, M.K. (66) 42)

β3 Subunit
Lethargic (*lh/lh*) mouse; Absence seizure; Voltage-dependent calcium channel; β4 Subunit; P/Q channel (Lin, F.-h. (71) 1)

β4 Subunit
Lethargic (*lh/lh*) mouse; Absence seizure; Voltage-dependent calcium channel; β3 Subunit; P/Q channel (Lin, F.-h. (71) 1)

Lethargic mouse; Absence seizure; $GABA_B$ receptor; Voltage-gated calcium channel (Lin, F.-h. (71) 131)

Subunits, β and γ
Inner ear; Hair cell; Ganglion cell; G-protein (Barritt, L.C. (68) 42)

Sumatriptan dimer
G-protein activation; 5-HT_{1A} receptor; 5-HT_{1B} receptor; [^{35}S]GTPγS binding and autoradiography; Rat and guinea-pig brain (Dupuis, D.S. (67) 107)

Superior cervical ganglion
Norepinephrine transporter; Serotonin transporter; In situ hybridization (Nishimura, M. (67) 82)

Superoxide dismutase
Reactive oxygen species; Catalase; Neuroglioma; Anti-Fas antibody (Jayanthi, S. (72) 158)

Suppression subtractive hybridization
Circadian rhythm; Melatonin; PCR select; Heme-binding protein (Zylka, M.J. (74) 175)

Suppressor gene
Oligodendrocyte; Oxidative stress; p53; Subcellular localization; Oligodendroglia; Stress; H_2O_2 (Uberti, D. (65) 167)

Suprachiasmatic nucleus
Circadian rhythm; *Period* repeat sequence; EMSA (Hamada, T. (65) 211)

Circadian rhythm; *Clock*; *BMAL1*; *per*; Light (Abe, H. (66) 104)

Circadian rhythm; Gene expression; Immediate-early gene; *junB, fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a,d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression; Transcription regulation (Guido, M.E. (67) 247)

Reticular thalamic nucleus; γ-Aminobutyric acid; In situ hybridization; Circadian rhythm (Duncan, M.J. (71) 325)

mt_1 Melatonin receptor mRNA; Diurnal rhythm; Competitive reverse transcription–polymerase chain reaction; Rat (Sugden, D. (72) 176)

Supraoptic nucleus
Calmodulin gene expression; In situ hybridization; Water deprivation; Paraventricular hypothalamic nucleus; Rat (Palfi, A. (74) 111)

SWAP gene
Thyroid hormone; Gene regulation; Differential display; Splicing (Cuadrado, A. (71) 332)

Sympathetic nerve activity
Spontaneously hypertensive rats; Hypertension; c-*fos*; Corticotropin-releasing factor; Stress; Paraventricular nucleus; Barrington's nucleus; Nucleus of the tractus solitarius; Ventrolateral medulla (Krukoff, T.L. (65) 70)

Synapse
Synaptojanin; Endocytosis; Brain; Rat; In situ hybridization histochemistry (Kudo, M. (64) 179)

ARIA; Transcription; MAP kinase; Acetylcholine receptor (Si, J. (67) 18)

Synapsin II
Gene expression; Transgenic mouse; Promoter; Transcription (Chin, L.-S. (67) 239)

Synaptic plasticity
Thymosin β_{10}; Kainic acid; Gliosis (Carpintero, P. (70) 141)

Heat shock protein; Chaperone; Learning; Stress; Cerebellum (Ambrosini, M.V. (70) 164)

Learning; Long term depression (Napolitano, M. (72) 89)

mRNA; Dendrite; Local protein synthesis; Postsynaptic density (Tian, Q.B. (72) 147)

Synaptic protein
GDNF; BDNF; Mesencephalic; Transmitter release; Fasciculation (Feng, L. (66) 62)

Synaptic transmission
Arachidonic acid; Nicotinic ACh receptor; Protein kinase C; Long-term potentiation; Hippocampus (Nishizaki, T. (69) 263)

Synaptic vesicle
Cations transport; Ca^{2+}/H^+ antiport; Brain cortex (Gonçalves, P.P. (67) 283)

Ca^{2+}/H^+ antiport; Brain cortex (Gonçalves, P.P. (71) 178)

Synaptojanin
Synapse; Endocytosis; Brain; Rat; In situ hybridization histochemistry (Kudo, M. (64) 179)

Syrian hamster
Pineal gland; Melatonin; *N*-Acetyltransferase; AA-NAT; In situ hybridization (Gauer, F. (71) 87)

System y^+
Brain; Arginine; Nitric oxide; Arginase; Argininosuccinate; In situ hybridization (Braissant, O. (70) 231)

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tal-1
bHLH factor; *tal-2*; In situ hybridization (Mori, S. (64) 199)

tal-2
bHLH factor; *tal-1*; In situ hybridization (Mori, S. (64) 199)

Tamoxifen
Serotonin transporter; 5-Hydroxytryptamine$_{2A}$ receptor; Estradiol-17β; Estradiol receptor (Sumner, B.E.H. (73) 119)

Targeting
CaM kinase; Expression; Isoform; Mouse (Bayer, K.-U. (70) 147)

Taste
Trk receptor; Tyrosine kinase; NGF; BDNF; NT-3; NT-4; In situ RT-PCR (Cho, T.T. (68) 1)

Taste bud
Serotonin; Transporter; Gustatory; Vallate papilla; Immunocytochemistry (Ren, Y. (74) 221)

TATA box
Polymerase chain reaction; Bisulfite; Reporter gene; Transfection; SH-SY5Y (Andria, M.L. (70) 54)

Tau
Stress-activated kinase; c-Jun (Kumagae, Y. (67) 10)

Mitogen-activated protein kinase; Amyloid precursor protein; Hyperphosphorylation; Alzheimer's disease (Grant, S.M. (72) 115)

Tau protein
Dementia; Isoform; Mammalian phylogeny; Two-dimensional gel electrophoresis (Janke, C. (68) 119)

TCA
Serotonin transporters; Uptake parameters; Pharmacological profile; SSRI; RT-PCR (Mortensen, O.V. (71) 120)

Telemetry
Vesicular monoamine transporter 2; Transgenic mouse; Electrocardiogram; Prolonged QT (Itokawa, K. (71) 354)

Temporal lobe epilepsy
Hippocampus; Kainic acid; Mossy fiber sprouting; Transcription factor (Feng, Z. (69) 144)

Temporary
Blood–brain barrier; Ischemia; Middle cerebral artery occlusion; Reperfusion; Tumor necrosis factor-alpha (Yang, G.-Y. (69) 135)

Adenovirus; Blood–brain barrier; Ischemia; Mouse; Intracellular adhesion molecule-1; Interleukin-1 (Yang, G.-Y. (72) 129)

Temporomandibular joint
Preprodynorphin; Preproenkephalin; Perioral skin; Pain (Imbe, H. (67) 87)

Terminal differentiation
DNA methylation pattern; DNA methyltransferase; Nerve growth factor; PC12 differentiation; Myotube differentiation (Deng, J. (71) 23)

Testis
Circadian photoreceptor; Molecular clock; Liver; Phase shift (Miyamoto, Y. (71) 238)

Testosterone
5-hydroxytryptamine; Estrogen; Serotonin transporter; Dorsal raphe nucleus (McQueen, J.K. (63) 241)

Estrogen; Menopause; Hypothalamus; Reproduction (Danzer, S.C. (66) 200)

Δ^9-Tetrahydrocannabinol
Proenkephalin; Cannabinoid receptor; mRNA; [^{35}S]GTPγ binding; Caudate–putamen (Corchero, J. (67) 148)

TGF-β_1
APP gene expression; Post-transcription; *Cis–trans* interaction (Amara, F.M. (71) 42)

TGF-β1
NT-3; cAMP; cAMP-dependent protein kinase A; GGF_2 (Cai, F. (71) 256)

Thapsigargin
Calcium; Cortex; Endoplasmic reticulum; gadd34; Hippocampus; Protein synthesis; Transient ischemia (Doutheil, J. (63) 225)

Store-operated Ca^{2+} channel; *trp*; Hippocampus (Mizuno, N. (64) 41)

THC
MDMA; LSD; Cocaine; Morphine; C-fos; In situ hybridization (Erdtmann-Vourliotis, M. (71) 313)

Thymosin β_{10}
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Gene regulation; Differential display; SWAP gene; Splicing (Cuadrado, A. (71) 332)

Time course of δ-opioid receptor trafficking
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Transactivation
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Transcription
ARIA; MAP kinase; Synapse; Acetylcholine receptor (Si, J. (67) 18)

Synapsin II; Gene expression; Transgenic mouse; Promoter (Chin, L.-S. (67) 239)

Dopamine receptor; Corticosterone; Caudate–putamen; Nucleus accumbens; Promoter (Lammers, C.-H. (69) 281)

APP; Beta-peptide; Gel shift assay; Gene regulation; Nuclear factor (Lahiri, D.K. (71) 32)

Transcriptional regulation
Aromatase; Promoter region; *Cis*-acting element (Honda, S.-i. (66) 122)

Transcription factor
Hypoxia; Cultured neuron; Developing rat brain; Apoptosis; c-Jun N-terminal kinase (Chihab, R. (63) 105)

NF-κB; Stroke; Ischemia; Electrophoretic mobility shift assay (Zhang, S. (63) 121)

Seizure; Neuronal damage; Development (Dubé, C. (63) 139)

Valproate; AP-1; *jun*; *fos*; Mania; Anticonvulsant (Chen, G. (64) 52)

Electrophoretic mobility shift assay; NF-κB; Rel; UV-crosslinking (Moerman, A.M. (67) 303)

Hippocampus; Kainic acid; Mossy fiber sprouting; Temporal lobe epilepsy (Feng, Z. (69) 144)

Cyclic AMP response element-binding protein; Alternative splicing; Messenger RNA; Gene regulation; Central nervous system (Pietruck, C. (69) 286)

Neuropeptide; Somatostatin receptor; Promoter analysis; Seizure (Calbet, M. (72) 55)

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Transcription factor binding site
Receptor for advanced glycated end products (RAGE); Promoter; DNA methylation; Brain (Tohgi, H. (65) 124)

Transcription regulation
Circadian rhythm; Suprachiasmatic nucleus; Gene expression; Immediate-early gene; *junB*, *fosB*; *NGFI-A (zif-268; Krox24)*; Excitatory amino acid; NMDA (*N*-methyl-D-aspartate) receptor; Dizocilpine (MK-801, (+)-5-methyl-10,11-dihydro-5*H*-dibenzo-[*a*,*d*]cyclohepten-5,10-imine maleate); Light; Entrainment; Spontaneous expression (Guido, M.E. (67) 247)

Dopamine transporter; Human; *cis*-Regulatory element; Nurr1; Gene (Sacchetti, P. (74) 167)

Transfected NIH-3T3 cell
5-HT_{1A} receptor; *Xenopus laevis*; BrdU incorporation (Cappellini, C. (63) 380)

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Polymerase chain reaction; Bisulfite; Reporter gene; TATA box; SH-SY5Y (Andria, M.L. (70) 54)

Transferrin
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Transformer-2
Alternative splicing; Clathrin light chain B (Stamm, S. (64) 108)

Transforming growth factor beta 2
Basic fibroblast growth factor; 6-Hydroxydopamine; Immunohistochemistry; Neural transplantation; Ventral mesencephalon (Sommer, C. (69) 53)

Transgenic animal
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Transgenic mice
Kainic acid; Fos–lacZ; Development; Glutamate signalling; Neurotoxicity (Vendrell, M. (63) 25)

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Cocaine; Dopamine transporter; Conditioned place preference; Drug reward; MPTP (Donovan, D.M. (73) 37)

Gene expression; Sequence analysis; Alkaline phosphatase; Sonic hedgehog; SHH; Gli; Catecholamine; Nurr1; Ptx3; Antigen retrieval (Schimmel, J.J. (74) 1)

Growth-associated protein B-50/GAP-43; Olfactory marker protein; Olfactory system; Neuronal differentiation; Gene regulation (Holtmaat, A.J.G.D. (74) 197)

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Synapsin II; Gene expression; Promoter; Transcription (Chin, L.-S. (67) 239)

Kappa opioid receptor; Gene expression; Promoter; Embryo (Hu, X. (69) 35)

Vesicular monoamine transporter 2; Electrocardiogram; Telemetry; Prolonged QT (Itokawa, K. (71) 354)

Transient ischemia
Calcium; Cortex; Endoplasmic reticulum; gadd34; Hippocampus; Protein synthesis; Thapsigargin (Doutheil, J. (63) 225)

Translation arrest
AT_1 receptor; Antisense oligonucleotide; Ribonuclease H mechanism (Ho, S.P. (65) 23)

Transmitter release
GDNF; BDNF; Mesencephalic; Synaptic protein; Fasciculation (Feng, L. (66) 62)

Transporter
Neuronal plasticity; Cell death; Excitatory amino acid (Simantov, R. (65) 112)

Glycine; *Homo sapiens*; Sarcosine (Gallagher, M.J. (70) 101)

Serotonin; Gustatory; Taste bud; Vallate papilla; Immunocytochemistry (Ren, Y. (74) 221)

Transport of proteins across neural membrane
G-transducer protein; IgGs to Gα subunit; Protein kinase C activity; Antinociception (Garzón, J. (65) 151)

Traumatic brain injury
p53; Cyclin D1; Cell cycle; Cell death; Apoptosis (Napieralski, J.A. (71) 78)

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Treatment
Brain; Ischemia; Neurological; Growth hormone; Stroke (Scheepens, A. (68) 88)

Trigeminal motor nucleus
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Trigeminal system
Eph receptor; Ephrin; Neural development; Corticospinal tract; Hippocampus (Rogers, J.H. (74) 225)

Trinucleotide repeat
Huntington's disease; Phage-displayed peptide libraries; Langerhans cells and brain (Wilkinson, F.L. (69) 10)

Trisomy-16 mouse
Down's syndrome; Astrocyte; Embryonic primary culture; Activator protein-1; C-jun; Hydrogen peroxide (Scortegagna, M. (73) 144)

trk
NGF; BDNF; NT-3; Striatum; Excitatory amino acid (Canals, J.M. (69) 242)

Trk receptor
Tyrosine kinase; Taste; NGF; BDNF; NT-3; NT-4; In situ RT-PCR (Cho, T.T. (68) 1)

Trochlear nucleus
Calcitonin gene-related peptide; Messenger RNA; Oculomotor nucleus; Abducens nucleus; Trigeminal motor nucleus (Fukuoka, T. (63) 304)

trp
Store-operated Ca^{2+} channel; Hippocampus; Thapsigargin (Mizuno, N. (64) 41)

Truncated receptor
G protein-coupled receptor; Degenerate PCR; Splice variant; Donor/acceptor site; HA epitope (Olsen, M.A. (64) 255)

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Tumor necrosis factor-alpha
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TUNEL
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TUNEL staining
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U

Ubiquitin
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Ultraviolet-sensitive opsin
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UV-crosslinking
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V

Vallate papilla
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Valproate
Transcription factor; AP-1; *jun*; *fos*; Mania; Anticonvulsant (Chen, G. (64) 52)

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Brain capillary endothelial cell; Astrocyte; Nitric oxide; cGMP; cGMP-dependent protein kinase (Sporbert, A. (67) 258)

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Vasospasm
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Visual pathway
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Water deprivation
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XBR
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Xenopus laevis
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$5\text{-}HT_{1A}$ receptor; Transfected NIH-3T3 cell; BrdU incorporation (Cappellini, C. (63) 380)

Y

Young / old rat
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Z

Zac
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Cerebral specialisation
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***N*-(2-Chloroethyl)-*N*-ethyl-2-bromobenzylamine (DSP-4)**
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$GABA_A$ receptors
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c-Jun
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Opioid receptor; Interaction (Mao, J. (30) 289)

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NO synthase
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Nucleus prepositus hypoglossi
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nur77
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Human memory; Priming; Directed forgetting; Intentional forgetting; Event-related potentials; ERPs (Paller, K.A. (7) 519)

FFT-Dipole-Approximation
EEG frequency analysis; Source localization; Personality; Laterality; Emotion (Pizzagalli, D. (7) 371)

Focusing
Spatial attention; Visual search; Attentional orienting; Myopia (Turatto, M. (8) 369)

Form
Striate; Extrastriate; Functional magnetic resonance imaging; Human; Brain (Beason-Held, L.L. (7) 111)

Formant transient
Speech perception; MEG; Mismatch negativity (Mathiak, K. (8) 251)

Free recall
Acetylcholine; Glucose; Memory; Primacy; Priority index; Recency (Messier, C. (7) 221)

Frequency perception
Time perception; Internal clock; Attention; Working memory; Cerebellum; Prefrontal cortex (Mangels, J.A. (7) 15)

Frontal lobe
ERPs; Associative recognition; Associative recall; Recollection; Context (Donaldson, D.I. (8) 1)

Frontal lobe function
Amyotrophic lateral sclerosis; Event-related potential; Neuropsychology; Selective attention (Vieregge, P. (8) 27)

Frontotemporal interaction
Face; PET; Encoding; Recognition; Network analysis (Rajah, M.N. (8) 259)

Functional magnetic resonance imaging
Form; Striate; Extrastriate; Human; Brain (Beason-Held, L.L. (7) 111)

Functional magnetic resonance imaging (fMRI)
Temporal sequencing; Language; Cognition; Learning; Working memory (Wildgruber, D. (7) 285)

Functional MRI
Working memory; Prefrontal cortex; Spatial; Nonspatial (D'Esposito, M. (7) 1)

Spatial working memory; Prefrontal cortex (Zarahn, E. (7) 255)

Fusiform gyrus
Magnetoencephalography; Magneto-encephalography; Electro-encephalography; Face (Watanabe, S. (8) 125)

G

Gallus gallus
Lateralization; Brain asymmetry; Animal cognition; Detour; Imprinting; Domestic chick (Vallortigara, G. (7) 307)

Lateralization; Asymmetry; Sleep; Imprinting; Avian brain; Chick (Mascetti, G.G. (7) 451)

Glottal excitation
Auditory; Human; N1m; P2m; Speech; Tone (Tiitinen, H. (8) 355)

Glucocorticoid hormones
Tree shrew; Hippocampus; Stress; Memory; Holeboard (Ohl, F. (7) 379)

Glucose
Acetylcholine; Memory; Primacy; Priority index; Recency; Free recall (Messier, C. (7) 221)

Glutamic acid decarboxylase
Antisense oligonucleotide; Nucleus accumbens; Attention; Basal forebrain (Miner, L.A.H. (7) 269)

Go / No-go
Somatosensory evoked potential; Voluntary movement; Cortex; Preparation (Hoshiyama, M. (7) 137)

H

Hemispheric differences
Language; Sentence processing; Event-related potentials; N400 (Federmeier, K.D. (8) 373)

Hemispheric lateralization
Magnetencephalography (MEG); Speech perception; Acoustic cortex; Supratemporal plane; Temporal processing (Ackermann, H. (7) 511)

Hippocampus
Dopamine uptake inhibitor; Acetylcholine release; Muscarinic receptor antagonist; Passive avoidance test; Rat (Nail-Boucherie, K. (7) 203)

Tree shrew; Stress; Memory; Holeboard; Glucocorticoid hormones (Ohl, F. (7) 379)

Nicotine; Memory; Radial-arm maze (Levin, E.D. (7) 405)

Holeboard
Tree shrew; Hippocampus; Stress; Memory; Glucocorticoid hormones (Ohl, F. (7) 379)

Human
Form; Striate; Extrastriate; Functional magnetic resonance imaging; Brain (Beason-Held, L.L. (7) 111)

Magnetoencephalography; Speech; Voicing; VOT; Auditory cortex; N1m (Simos, P.G. (7) 215)

Attention; Auditory cortex; Regional cerebral blood flow (rCBF); Positron emission tomography (PET) (Alho, K. (7) 335)

Spatial orientation; Vestibular system; Visual–vestibular interaction; Virtual reality; Adaptation (Viaud-Delmon, I. (7) 507)

Working memory; Aging; P3; N4; Dorsolateral frontal cortex (Nielsen-Bohlman, L. (8) 299)

Odor mixture; Temporal processing; Working memory (Jinks, A. (8) 311)

Auditory; Glottal excitation; N1m; P2m; Speech; Tone (Tiitinen, H. (8) 355)

Human memory
Face recognition; Priming; Directed forgetting; Intentional forgetting; Event-related potentials; ERPs (Paller, K.A. (7) 519)

Human primary motor cortex
Magnetoencephalography; Movement preparation; Visually triggered movement; Reaction time task (Endo, H. (8) 229)

Human subject
Kinematics; Reaching; Spatial attention (Lee, D. (8) 143)

I

Implicit and explicit memory
Priming; Event-related brain potentials (Cycowicz, Y.M. (8) 271)

Implicit memory
Event-related potential; Prefrontal cortex; Lexical; Semantic; Repetition priming (Swick, D. (7) 143)

Midazolam; Perceptual priming; Modality-match effect; Conceptual priming (Hirshman, E. (7) 473)

Event-related potential; Parkinson's disease; N400; Repetition priming (Tachibana, H. (8) 165)

Imprinting
Lateralization; Brain asymmetry; Animal cognition; Detour; Domestic chick; *Gallus gallus* (Vallortigara, G. (7) 307)

Lateralization; Asymmetry; Sleep; Avian brain; Chick; *Gallus gallus* (Mascetti, G.G. (7) 451)

Individual differences
Working memory; Listening span test; Peak alpha frequency; Magnetoencephalography (Osaka, M. (8) 365)

Inflectional morphology
Event-related potentials; N400; Priming; Dual route; Connectionism (Münte, T.F. (7) 241)

Intentional forgetting
Human memory; Face recognition; Priming; Directed forgetting; Event-related potentials; ERPs (Paller, K.A. (7) 519)

Internal clock
Time perception; Frequency perception; Attention; Working memory; Cerebellum; Prefrontal cortex (Mangels, J.A. (7) 15)

Intracranial
Event-related potential (ERP); Mismatch negativity (MMN); N1; Detection; Discrimination; Auditory cortex (Liasis, A. (7) 503)

Involuntary attention
Audition; Event-related brain potential; Mismatch negativity; Distraction (Schröger, E. (7) 71)

K

Kanji
Magnetoencephalography; Semantic processing; Subtraction; Word perception (Kamada, K. (7) 89)

Kinematics
Human subject; Reaching; Spatial attention (Lee, D. (8) 143)

L

Language
Temporal sequencing; Cognition; Learning; Working memory; Functional magnetic resonance imaging (fMRI) (Wildgruber, D. (7) 285)

Recognition potential; Reading; Vision; Mental chronometry (Rudell, A.P. (8) 173)

Sentence processing; Hemispheric differences; Event-related potentials; N400 (Federmeier, K.D. (8) 373)

Late positivity
Visual selective and divided attention; Switching attention; Event-related potentials; Early frontal selection positivity; Selection negativity (Michie, P.T. (7) 419)

Laterality
FFT-Dipole-Approximation; EEG frequency analysis; Source localization; Personality; Emotion (Pizzagalli, D. (7) 371)

Lateralization
Brain asymmetry; Animal cognition; Detour; Imprinting; Domestic chick; *Gallus gallus* (Vallortigara, G. (7) 307)

Asymmetry; Sleep; Imprinting; Avian brain; Chick; *Gallus gallus* (Mascetti, G.G. (7) 451)

Lateralized readiness potential
Movement-related potential; Movement preparation; Magneto-encephalography; Mental chronometry (Praamstra, P. (8) 77)

Learning
Visual search; Psychophysiology; Effort; Attention (Leonards, U. (7) 207)

Temporal sequencing; Language; Cognition; Working memory; Functional magnetic resonance imaging (fMRI) (Wildgruber, D. (7) 285)

Working memory; Attention; Practice; EEG; Alpha rhythm; Theta rhythm (Smith, M.E. (7) 389)

Left–right bias
Working memory; Shape encoding; Magical number; Memory model; Position effect (Ninio, J. (7) 57)

Left-to-right reader
Line bisection; Neglect syndrome; Normal subject; Reading habit; Scanning direction; Right-to-left reader (Chokron, S. (7) 173)

Lexical
Event-related potential; Prefrontal cortex; Semantic; Repetition priming; Implicit memory (Swick, D. (7) 143)

Lexical access
Semantic priming; Event related potential; N400 (Weisbrod, M. (8) 289)

Line bisection
Neglect syndrome; Normal subject; Reading habit; Scanning direction; Left-to-right reader; Right-to-left reader (Chokron, S. (7) 173)

Listening span test
Working memory; Individual differences; Peak alpha frequency; Magnetoencephalography (Osaka, M. (8) 365)

M

Magical number
Working memory; Shape encoding; Memory model; Position effect; Left–right bias (Ninio, J. (7) 57)

Magnetencephalography (MEG)
Speech perception; Hemispheric lateralization; Acoustic cortex; Supratemporal plane; Temporal processing (Ackermann, H. (7) 511)

Magnetoencephalography
Human primary motor cortex; Movement preparation; Visually triggered movement; Reaction time task (Endo, H. (8) 229)

Kanji; Semantic processing; Subtraction; Word perception (Kamada, K. (7) 89)

Human; Speech; Voicing; VOT; Auditory cortex; N1m (Simos, P.G. (7) 215)

Face recognition; Visual object recognition; Emotion (Streit, M. (7) 481)

CO_2 laser; Electroencephalography; Distraction; Pain (Yamasaki, H. (8) 73)

Magneto-encephalography
Lateralized readiness potential; Movement-related potential; Movement preparation; Mental chronometry (Praamstra, P. (8) 77)

Magnetoencephalography; Electro-encephalography; Face; Fusiform gyrus (Watanabe, S. (8) 125)

Magnetoencephalography
Magneto-encephalography; Electro-encephalography; Face; Fusiform gyrus (Watanabe, S. (8) 125)

Working memory; Individual differences; Listening span test; Peak alpha frequency (Osaka, M. (8) 365)

MEG
Speech perception; Mismatch negativity; Formant transient (Mathiak, K. (8) 251)

Memory
Digit; Event-related potential (Ji, J. (7) 179)

Acetylcholine; Glucose; Primacy; Priority index; Recency; Free recall (Messier, C. (7) 221)

ERPs; Face recognition; N400; Scalp distribution (Olivares, E.I. (7) 343)

Tree shrew; Hippocampus; Stress; Holeboard; Glucocorticoid hormones (Ohl, F. (7) 379)

Hippocampus; Nicotine; Radial-arm maze (Levin, E.D. (7) 405)

Event-related desynchronization; Alpha oscillation; Synchronization; Theta (Klimesch, W. (7) 493)

Auditory N400; Event-related potential (ERP); Repetition priming; Subcortical infarction (Tachibana, H. (8) 87)

Rhesus monkey; Neuropsychology; CANTAB; Cognition; Motor behavior (Weed, M.R. (8) 185)

Rhesus monkey; Scopolamine; Attention; Spatial working memory; Reaction time (Taffe, M.A. (8) 203)

Memory model
Working memory; Shape encoding; Magical number; Position effect; Left–right bias (Ninio, J. (7) 57)

Memory retrieval
Cortical polarization; Biofeedback; Mental arithmetic; Positive slow wave (pSW) (Pauli, P. (7) 49)

Mental arithmetic
Cortical polarization; Biofeedback; Positive slow wave (pSW); Memory retrieval (Pauli, P. (7) 49)

Mental chronometry
Lateralized readiness potential; Movement-related potential; Movement preparation; Magneto-encephalography (Praamstra, P. (8) 77)

Recognition potential; Language; Reading; Vision (Rudell, A.P. (8) 173)

Mental rotation
Motor control; Stimulus–response compatibility; Choice; Symbolic cue; Spatial cue (Dassonville, P. (7) 235)

Midazolam
Implicit memory; Perceptual priming; Modality-match effect; Conceptual priming (Hirshman, E. (7) 473)

Mismatch negativity
Audition; Event-related brain potential; Distraction; Involuntary attention (Schröger, E. (7) 71)

Emotion; Arousal; Attention; Amygdala; Evoked potentials (Surakka, V. (7) 159)

Somatosensory ERP; Automatic processing (Shinozaki, N. (7) 165)

Audition; Auditory evoked potential; Auditory cortex; Complex tone; Echoic memory; Music perception (Vaz Pato, M. (7) 295)

Event-related potential; Auditory sensory memory; Phonetic representation; Category boundary effect; Cross-language study (Winkler, I. (7) 357)

Speech perception; MEG; Formant transient (Mathiak, K. (8) 251)

Mismatch negativity (MMN)
Event-related potential (ERP); Intracranial; N1; Detection; Discrimination; Auditory cortex (Liasis, A. (7) 503)

Modality-match effect
Implicit memory; Midazolam; Perceptual priming; Conceptual priming (Hirshman, E. (7) 473)

Motion
Random dot pattern; Visual evoked potential; Coherence (Niedeggen, M. (8) 95)

Plaid; Transparency; Visual cortex; Psychophysics (Clifford, C.W.G. (8) 345)

Motor behavior
Rhesus monkey; Neuropsychology; CANTAB; Cognition; Memory (Weed, M.R. (8) 185)

Motor control
Stimulus–response compatibility; Choice; Mental rotation; Symbolic cue; Spatial cue (Dassonville, P. (7) 235)

Motor programming; Sequencing; Tapping; Premotor cortex; fMRI (Lepage, M. (8) 17)

Motor preparation
Basal ganglia; Planning (Postle, B.R. (8) 107)

Motor programming
Motor control; Sequencing; Tapping; Premotor cortex; fMRI (Lepage, M. (8) 17)

Movement imitation
Perceptual–motor interaction; Eye-tracking (Matarić, M.J. (7) 191)

Movement preparation
Magnetoencephalography; Human primary motor cortex; Visually triggered movement; Reaction time task (Endo, H. (8) 229)

Lateralized readiness potential; Movement-related potential; Magneto-encephalography; Mental chronometry (Praamstra, P. (8) 77)

Movement-related potential
Lateralized readiness potential; Movement preparation; Magneto-encephalography; Mental chronometry (Praamstra, P. (8) 77)

fMRI
Motor programming; Motor control; Sequencing; Tapping; Premotor cortex (Lepage, M. (8) 17)

Auditory cortex; Stimulus duration (Jäncke, L. (8) 117)

Consciousness; Auditory stimulus; Dissociation (Colder, B.W. (8) 177)

Muscarinic receptor antagonist
Dopamine uptake inhibitor; Acetylcholine release; Hippocampus; Passive avoidance test; Rat (Nail-Boucherie, K. (7) 203)

Music perception
Audition; Auditory evoked potential; Auditory cortex; Complex tone; Echoic memory; Mismatch negativity (Vaz Pato, M. (7) 295)

Myopia
Spatial attention; Visual search; Attentional orienting; Focusing (Turatto, M. (8) 369)

N

N1
Event-related potential (ERP); Intracranial; Mismatch negativity (MMN); Detection; Discrimination; Auditory cortex (Liasis, A. (7) 503)

N4
Working memory; Aging; Human; P3; Dorsolateral frontal cortex (Nielsen-Bohlman, L. (8) 299)

N400
Event-related potentials; Inflectional morphology; Priming; Dual route; Connectionism (Münte, T.F. (7) 241)

ERPs; Face recognition; Memory; Scalp distribution (Olivares, E.I. (7) 343)

Automatic priming; Expectancy related priming; Spreading activation (Deacon, D. (7) 465)

Event-related potential; Parkinson's disease; Implicit memory; Repetition priming (Tachibana, H. (8) 165)

Semantic priming; Lexical access; Event related potential (Weisbrod, M. (8) 289)

Language; Sentence processing; Hemispheric differences; Event-related potentials (Federmeier, K.D. (8) 373)

Near-threshold
Event-related potential; P300; P300 topography; Wavelet transform; Time–frequency analysis (Devrim, M. (8) 37)

Neglect syndrome
Line bisection; Normal subject; Reading habit; Scanning direction; Left-to-right reader; Right-to-left reader (Chokron, S. (7) 173)

Network analysis
Face; PET; Encoding; Recognition; Frontotemporal interaction (Rajah, M.N. (8) 259)

Neuronal firing
Dorsal hippocampus; Event-related potential; Auditory discrimination paradigm; Rat (Shinba, T. (8) 241)

Neuropsychology
Amyotrophic lateral sclerosis; Event-related potential; Frontal lobe function; Selective attention (Vieregge, P. (8) 27)

Rhesus monkey; CANTAB; Cognition; Motor behavior; Memory (Weed, M.R. (8) 185)

Nicotine
Hippocampus; Memory; Radial-arm maze (Levin, E.D. (7) 405)

N100m
Auditory selective attention; Whole-head MEG; Primary auditory cortex; Processing negativity (Fujiwara, N. (7) 99)

N1m
Magnetoencephalography; Human; Speech; Voicing; VOT; Auditory cortex (Simos, P.G. (7) 215)

Auditory; Glottal excitation; Human; P2m; Speech; Tone (Tiitinen, H. (8) 355)

Nonspatial
Functional MRI; Working memory; Prefrontal cortex; Spatial (D'Esposito, M. (7) 1)

Normal subject
Line bisection; Neglect syndrome; Reading habit; Scanning direction; Left-to-right reader; Right-to-left reader (Chokron, S. (7) 173)

Nucleus accumbens
Antisense oligonucleotide; Glutamic acid decarboxylase; Attention; Basal forebrain (Miner, L.A.H. (7) 269)

O

Odor mixture
Temporal processing; Human; Working memory (Jinks, A. (8) 311)

Orienting attention
Visual attention; Cerebellum; Autism; Child; Diagnosis (Harris, N.S. (8) 61)

P

P3
Working memory; Aging; Human; N4; Dorsolateral frontal cortex (Nielsen-Bohlman, L. (8) 299)

P300
Near-threshold; Event-related potential; P300 topography; Wavelet transform; Time–frequency analysis (Devrim, M. (8) 37)

Pain
CO_2 laser; Magnetoencephalography; Electroencephalography; Distraction (Yamasaki, H. (8) 73)

Parkinson's disease
Event-related potential; N400; Implicit memory; Repetition priming (Tachibana, H. (8) 165)

Passive avoidance test
Dopamine uptake inhibitor; Acetylcholine release; Hippocampus; Muscarinic receptor antagonist; Rat (Nail-Boucherie, K. (7) 203)

Peak alpha frequency
Working memory; Individual differences; Listening span test; Magnetoencephalography (Osaka, M. (8) 365)

Perceptual–motor interaction
Eye-tracking; Movement imitation (Matarić, M.J. (7) 191)

Perceptual priming
Implicit memory; Midazolam; Modality-match effect; Conceptual priming (Hirshman, E. (7) 473)

Personality
FFT-Dipole-Approximation; EEG frequency analysis; Source localization; Laterality; Emotion (Pizzagalli, D. (7) 371)

PET
Working memory; Central executive (Collette, F. (7) 411)

Visuomotor control; Coordinate transformation; Visual area V1; Posterior parietal cortex; Premotor cortex (De Jong, B.M. (8) 45)

Face; Encoding; Recognition; Network analysis; Frontotemporal interaction (Rajah, M.N. (8) 259)

Phonetic representation
Event-related potential; Mismatch negativity; Auditory sensory memory; Category boundary effect; Cross-language study (Winkler, I. (7) 357)

Plaid
Motion; Transparency; Visual cortex; Psychophysics (Clifford, C.W.G. (8) 345)

Planning
Basal ganglia; Motor preparation (Postle, B.R. (8) 107)

P2m
Auditory; Glottal excitation; Human; N1m; Speech; Tone (Tiitinen, H. (8) 355)

Position effect
Working memory; Shape encoding; Magical number; Memory model; Left–right bias (Ninio, J. (7) 57)

Positive slow wave (pSW)
Cortical polarization; Biofeedback; Mental arithmetic; Memory retrieval (Pauli, P. (7) 49)

Positron emission tomography (PET)
Attention; Auditory cortex; Human; Regional cerebral blood flow (rCBF) (Alho, K. (7) 335)

Posterior parietal cortex
Visuomotor control; Coordinate transformation; PET; Visual area V1; Premotor cortex (De Jong, B.M. (8) 45)

P300, P3a, P3b
Event-related potential (ERP); Auditory/visual stimulus; Three-stimulus paradigm; Stimulus context; Stimulus distinctiveness (Comerchero, M.D. (7) 41)

Practice
Working memory; Attention; Learning; EEG; Alpha rhythm; Theta rhythm (Smith, M.E. (7) 389)

Prefrontal cortex
Functional MRI; Working memory; Spatial; Nonspatial (D'Esposito, M. (7) 1)

Time perception; Frequency perception; Internal clock; Attention; Working memory; Cerebellum (Mangels, J.A. (7) 15)

Event-related potential; Lexical; Semantic; Repetition priming; Implicit memory (Swick, D. (7) 143)

Functional MRI; Spatial working memory (Zarahn, E. (7) 255)

Premotor cortex
Motor programming; Motor control; Sequencing; Tapping; fMRI (Lepage, M. (8) 17)

Visuomotor control; Coordinate transformation; PET; Visual area V1; Posterior parietal cortex (De Jong, B.M. (8) 45)

Preparation
Somatosensory evoked potential; Voluntary movement; Go/No-go; Cortex (Hoshiyama, M. (7) 137)

Primacy
Acetylcholine; Glucose; Memory; Priority index; Recency; Free recall (Messier, C. (7) 221)

Primary auditory cortex
Auditory selective attention; Whole-head MEG; N100m; Processing negativity (Fujiwara, N. (7) 99)

Priming
Event-related potentials; N400; Inflectional morphology; Dual route; Connectionism (Münte, T.F. (7) 241)

Human memory; Face recognition; Directed forgetting; Intentional forgetting; Event-related potentials; ERPs (Paller, K.A. (7) 519)

Event-related brain potentials; Implicit and explicit memory (Cycowicz, Y.M. (8) 271)

Priority index
Acetylcholine; Glucose; Memory; Primacy; Recency; Free recall (Messier, C. (7) 221)

Processing negativity
Auditory selective attention; Whole-head MEG; N100m; Primary auditory cortex (Fujiwara, N. (7) 99)

Psychophysics
Motion; Plaid; Transparency; Visual cortex (Clifford, C.W.G. (8) 345)

Psychophysiology
Visual search; Learning; Effort; Attention (Leonards, U. (7) 207)

P300 topography
Near-threshold; Event-related potential; P300; Wavelet transform; Time–frequency analysis (Devrim, M. (8) 37)

R

Radial-arm maze
Hippocampus; Nicotine; Memory (Levin, E.D. (7) 405)

Random dot pattern
Motion; Visual evoked potential; Coherence (Niedeggen, M. (8) 95)

Rat
Dopamine uptake inhibitor; Acetylcholine release; Hippocampus; Muscarinic receptor antagonist; Passive avoidance test (Nail-Boucherie, K. (7) 203)

Dorsal hippocampus; Neuronal firing; Event-related potential; Auditory discrimination paradigm (Shinba, T. (8) 241)

Reaching
Human subject; Kinematics; Spatial attention (Lee, D. (8) 143)

Reaction time
Rhesus monkey; Scopolamine; Memory; Attention; Spatial working memory (Taffe, M.A. (8) 203)

Reaction time task
Magnetoencephalography; Human primary motor cortex; Movement preparation; Visually triggered movement (Endo, H. (8) 229)

Reading
Recognition potential; Language; Vision; Mental chronometry (Rudell, A.P. (8) 173)

Reading habit
Line bisection; Neglect syndrome; Normal subject; Scanning direction; Left-to-right reader; Right-to-left reader (Chokron, S. (7) 173)

Recall
Episodic memory; Semantic memory; Recognition; Event-related potentials; ERPs (Johnson Jr., R. (7) 119)

Recency
Acetylcholine; Glucose; Memory; Primacy; Priority index; Free recall (Messier, C. (7) 221)

Recognition
Episodic memory; Semantic memory; Recall; Event-related potentials; ERPs (Johnson Jr., R. (7) 119)

Face; PET; Encoding; Network analysis; Frontotemporal interaction (Rajah, M.N. (8) 259)

Recognition potential
Language; Reading; Vision; Mental chronometry (Rudell, A.P. (8) 173)

Recollection
ERPs; Associative recognition; Associative recall; Frontal lobe; Context (Donaldson, D.I. (8) 1)

Regional cerebral blood flow (rCBF)
Attention; Auditory cortex; Human; Positron emission tomography (PET) (Alho, K. (7) 335)

Repetition priming
Event-related potential; Prefrontal cortex; Lexical; Semantic; Implicit memory (Swick, D. (7) 143)

Auditory N400; Event-related potential (ERP); Subcortical infarction; Memory (Tachibana, H. (8) 87)

Event-related potential; Parkinson's disease; N400; Implicit memory (Tachibana, H. (8) 165)

Rhesus monkey
Neuropsychology; CANTAB; Cognition; Motor behavior; Memory (Weed, M.R. (8) 185)

Scopolamine; Memory; Attention; Spatial working memory; Reaction time (Taffe, M.A. (8) 203)

Right-to-left reader
Line bisection; Neglect syndrome; Normal subject; Reading habit; Scanning direction; Left-to-right reader (Chokron, S. (7) 173)

S

Scalp distribution
ERPs; Face recognition; Memory; N400 (Olivares, E.I. (7) 343)

Scanning direction
Line bisection; Neglect syndrome; Normal subject; Reading habit; Left-to-right reader; Right-to-left reader (Chokron, S. (7) 173)

Scopolamine
Rhesus monkey; Memory; Attention; Spatial working memory; Reaction time (Taffe, M.A. (8) 203)

Selection negativity
Visual selective and divided attention; Switching attention; Event-related potentials; Early frontal selection positivity; Late positivity (Michie, P.T. (7) 419)

Selective attention
Amyotrophic lateral sclerosis; Event-related potential; Neuropsychology; Frontal lobe function (Vieregge, P. (8) 27)

Event-related potential; Spatial attention (Teder-Sälejärvi, W.A. (8) 213)

Event-related brain potential; Visual attention; Auditory attention; Cross-modal attention (Teder-Sälejärvi, W.A. (8) 327)

Semantic
Event-related potential; Prefrontal cortex; Lexical; Repetition priming; Implicit memory (Swick, D. (7) 143)

Semantic memory
Episodic memory; Recognition; Recall; Event-related potentials; ERPs (Johnson Jr., R. (7) 119)

Semantic priming
Lexical access; Event related potential; N400 (Weisbrod, M. (8) 289)

Semantic processing
Kanji; Magnetoencephalography; Subtraction; Word perception (Kamada, K. (7) 89)

Sentence processing
Language; Hemispheric differences; Event-related potentials; N400 (Federmeier, K.D. (8) 373)

Sequencing
Motor programming; Motor control; Tapping; Premotor cortex; fMRI (Lepage, M. (8) 17)

Shape encoding
Working memory; Magical number; Memory model; Position effect; Left–right bias (Ninio, J. (7) 57)

Sleep
Lateralization; Asymmetry; Imprinting; Avian brain; Chick; *Gallus gallus* (Mascetti, G.G. (7) 451)

Somatosensory ERP
Mismatch negativity; Automatic processing (Shinozaki, N. (7) 165)

Somatosensory evoked potential
Voluntary movement; Go/No-go; Cortex; Preparation (Hoshiyama, M. (7) 137)

Source localization
FFT-Dipole-Approximation; EEG frequency analysis; Personality; Laterality; Emotion (Pizzagalli, D. (7) 371)

Spatial
Functional MRI; Working memory; Prefrontal cortex; Nonspatial (D'Esposito, M. (7) 1)

Spatial attention
Human subject; Kinematics; Reaching (Lee, D. (8) 143)

Event-related potential; Selective attention (Teder-Sälejärvi, W.A. (8) 213)

Visual search; Attentional orienting; Focusing; Myopia (Turatto, M. (8) 369)

Spatial cue
Motor control; Stimulus–response compatibility; Choice; Mental rotation; Symbolic cue (Dassonville, P. (7) 235)

Spatial orientation
Vestibular system; Visual–vestibular interaction; Virtual reality; Adaptation; Human (Viaud-Delmon, I. (7) 507)

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Neurophysiology; Cerebral blood flow; Laser-Doppler flowmetry (Gerrits, R.J. (3) 14)

Cryogenic
Injury; Growth factor (Cook, J.L. (3) 1)

Cultured neuron
ROS; Glutamate neurotoxicity; Oxidative stress (Atlante, A. (4) 266)

Cytokine
Brain; Immunohistochemistry; In situ hybridization; Macrophage migration inhibitory factor (Suzuki, T. (4) 271)

D

Dendrite
Cell filling; Neural tracing; DiI; DiO; Iontophoresis (Prusky, G. (3) 313)

Dendritic differentiation
Cerebellar Purkinje cell; Cell culture; Glutamate receptor; Survival (Furuya, S. (3) 192)

Development
Adrenergic receptor; Ontogeny; Riboprobe (Winzer-Serhan, U.H. (3) 229)

Chick retina; Immunocytochemistry; Mexiletine; Organotypic roller culture; Photoreceptor; Radial Müller glia; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Dextran–tetramethylrhodamine
Neuronal tract-tracing technique; Biocytin; 5-Bromo-2′deoxyuridine; Somatostatin (Zupanc, G.K.H. (3) 37)

Dichlorofluorescin
Hydrogen peroxide; Microdialysis; Cerebral ischemia; Hippocampus; Mongolian gerbil (Lei, B. (3) 33)

Diffuse axonal injury
Behavioral neurobiology; Traumatic brain injury; Cortical contusion; Morris water maze (Yamaki, T. (3) 100)

Digoxigenin
In situ hybridization; Histochemistry; Gene expression; mRNA; PCR; cRNA; Radioactive (Kerner, J.A. (3) 22)

DiI
Cell filling; Neural tracing; Dendrite; DiO; Iontophoresis (Prusky, G. (3) 313)

DiO
Cell filling; Neural tracing; Dendrite; DiI; Iontophoresis (Prusky, G. (3) 313)

Distortion product otoacoustic emission
Ischemia (reversible); Cochlear blood flow; Cochlear potential; Mongolian gerbil (Mom, T. (4) 249)

cDNA cloning
5′-RACE-PCR; 3′-RACE-PCR; GRK6 (Fehr, C. (3) 242)

DNA fragmentation
Cell death; Apoptosis; Cell-free system (Solovyan, V. (4) 335)

Dopamine
Anoxia; Immature brain; Microdialysis; Monoamine (Nakajima, W. (3) 252)

Dopaminergic neuron
Neural gene expression; HPRT; Brain primary culture; Motoneuron; Neurological mutant (Pernas-Alonso, R. (4) 395)

Double labelling
In situ hybridization; Immunohistochemistry; Autoradiography; Hypothalamus; Neuronal plasticity (Fetissov, S.O. (4) 36)

E

Echolocation
Auditory cortex; Microchiroptera; Magnetic resonance imaging; Communication (Kamada, K. (4) 351)

Ecto-ATPase
Extracellular ATP; Light and electron microscopical enzyme histochemistry; Synaptic transmission; Purinergic neuromodulation; Signal transduction (Zinchuk, V.S. (4) 258)

Editing
Glutamate; AMPA receptor; Subunit; Splicing; RT–PCR; Co^{2+} uptake (Lee, J.C. (3) 142)

Electrical field stimulation
Electrical field stimulation; Protein assay; On-line automated technique; Neuropeptides; Neurotransmitters; Immunohistochemistry (Adeghate, E. (3) 270)

Protein assay; On-line automated technique; Electrical field stimulation; Neuropeptides; Neurotransmitters; Immunohistochemistry (Adeghate, E. (3) 270)

Electromyography
Reflex analysis; Conditioning; Human (Van der Glas, H.W. (3) 291)

Electron microscopy
Pattern analysis; Software; Runs test; Nearest neighbor; Cell culture (Baader, S.L. (3) 173)

Electron paramagnetic resonance spectroscopy
Cerebral cortex; Esterase; Excitatory amino acid; Mitochondrial respiration (Begley, J.G. (3) 76)

Electrophysiology
Mobile microelectrode; Contracting tissue; Spontaneous postsynaptic potential (Kunze, W.A.A. (3) 94)

Endogenous internal standard gene
NT-3; Quantitative RT-PCR; Coamplification (Tokuyama, W. (4) 407)

Enzymatic assay
Invertebrate; Cephalopod; Central nervous system dissection; Choline acetyltransferase; Cholinesterase (Bellanger, C. (3) 68)

Epileptogenesis
Cortical spreading depression; In vitro isolated brain preparation; Neuronal activity; Vascular tone (De Curtis, M. (3) 221)

Esterase
Cerebral cortex; Electron paramagnetic resonance spectroscopy; Excitatory amino acid; Mitochondrial respiration (Begley, J.G. (3) 76)

Excitatory amino acid
Cerebral cortex; Electron paramagnetic resonance spectroscopy; Esterase; Mitochondrial respiration (Begley, J.G. (3) 76)

Extracellular ATP
Ecto-ATPase; Light and electron microscopical enzyme histochemistry; Synaptic transmission; Purinergic neuromodulation; Signal transduction (Zinchuk, V.S. (4) 258)

Extracellular recording
Microelectrodes; Chronic implants (Williams, J.C. (4) 303)

F

Flow cytometry
Mitochondria; Reactive oxygen species; Antioxidant; Neuron; Glutamate (Sureda, F.X. (4) 280)

Fluorescent tracing
Microinjection system; Brain development; Thalamo-cortical connection (Sbriccoli, A. (3) 257)

Focal magnetic stimulation
Motor cortex excitability; Stroke; Plasticity (Traversa, R. (4) 44)

Foetal alcohol syndrome
Thalamo-cortical connection; Sensorimotor cortex; Rat; Neurotoxicity; Tract-tracing technique (Sbriccoli, A. (3) 264)

c-Fos expression
Lithium; Methamphetamine; Reverse tolerance; Ambulatory activity; Striatum; Geniculate nucleus (Namima, M. (4) 11)

Free-choice
Intracerebroventricular self-administration; Opiates; Rat (Braida, D. (3) 135)

G

GABA
Competitive RT–PCR; Transporter (Ficková, M. (4) 341)

GABA receptor
Cholinergic neuron; AF64A; NMDA receptor; Striatum (Ikarashi, Y. (4) 378)

GAD67 gene
β-galactosidase; β-gal histochemistry; β-gal immunohistochemistry; Graft; Olfactory marker protein (Sekerková, G. (3) 107)

Gene expression
In situ hybridization; Histochemistry; mRNA; PCR; cRNA; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

NMDA receptor; Splice variant; Competitive RT-PCR; Rat brain (Winkler, A. (4) 69)

Geniculate nucleus
Lithium; Methamphetamine; Reverse tolerance; Ambulatory activity; c-Fos expression; Striatum (Namima, M. (4) 11)

GFAP immunohistochemistry
Burst order; Interspike interval; Autocorrelogram (Miasnikov, A.A. (4) 49)

Glutamate
AMPA receptor; Subunit; Splicing; Editing; RT–PCR; Co^{2+} uptake (Lee, J.C. (3) 142)

Mitochondria; Reactive oxygen species; Antioxidant; Neuron; Flow cytometry (Sureda, F.X. (4) 280)

Glutamate neurotoxicity
ROS; Cultured neuron; Oxidative stress (Atlante, A. (4) 266)

Glutamate receptor
Cerebellar Purkinje cell; Cell culture; Dendritic differentiation; Survival (Furuya, S. (3) 192)

Graft
β-galactosidase; β-gal histochemistry; β-gal immunohistochemistry; *GAD67* gene; Olfactory marker protein (Sekerková, G. (3) 107)

GRK6
5′-RACE-PCR; 3′-RACE-PCR; cDNA cloning (Fehr, C. (3) 242)

Growth factor
Injury; Cryogenic (Cook, J.L. (3) 1)

H

High-energy microwave irradiation
Adenosine; mRNA integrity; Northern; RT-PCR (Mayne, M. (4) 295)

Hippocampal slice
Hippocampal subfield; Mitochondrial oxidative phosphorylation (Kudin, A. (4) 329)

Hippocampal subfield
Hippocampal slice; Mitochondrial oxidative phosphorylation (Kudin, A. (4) 329)

Hippocampus
Hydrogen peroxide; Dichlorofluorescin; Microdialysis; Cerebral ischemia; Mongolian gerbil (Lei, B. (3) 33)

Histochemistry
In situ hybridization; Gene expression; mRNA; PCR; cRNA; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

Histology
Retina; Apoptosis; Immunohistochemistry (Seigel, G.M. (3) 119)

Hoechst
Apoptosis; TUNEL; Immunohistochemistry (Whiteside, G. (3) 52)

HPLC
Purine; Pyrimidine; Cortical slice; Cortical neuron and astrocyte (Pissarek, M. (4) 314)

HPRT
Neural gene expression; Brain primary culture; Dopaminergic neuron; Motoneuron; Neurological mutant (Pernas-Alonso, R. (4) 395)

5-HT$_{1B}$ receptor mRNA
Brain; Rat; RNase protection assay; Polymerase chain reaction (Drogou, C. (4) 322)

Human
Reflex analysis; Conditioning; Electromyography (Van der Glas, H.W. (3) 291)

Hydrogen peroxide
Dichlorofluorescin; Microdialysis; Cerebral ischemia; Hippocampus; Mongolian gerbil (Lei, B. (3) 33)

Hypothalamus
In situ hybridization; Immunohistochemistry; Double labelling; Autoradiography; Neuronal plasticity (Fetissov, S.O. (4) 36)

Hypoxia preconditioning
Kainic acid; Seizure; Neuroprotection; Brain edema; Specific gravity (Emerson, M.R. (4) 360)

I

Immature brain
Anoxia; Microdialysis; Dopamine; Monoamine (Nakajima, W. (3) 252)

Immobilization
Neuron; NMR spectroscopy; Metabolism; Basement membrane gel thread; Cell culture (Brand, A. (3) 183)

Immunocytochemistry
Reelin; Neurotrophic factor; In situ hybridization (Pesold, C. (3) 155)

Chick retina; Development; Mexiletine; Organotypic roller culture; Photoreceptor; Radial Müller glia; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Immunohistochemistry
Apoptosis; TUNEL; Hoechst (Whiteside, G. (3) 52)

Retina; Apoptosis; Histology (Seigel, G.M. (3) 119)

Electrical field stimulation; Protein assay; Online automated technique; Electrical field stimulation; Neuropeptides; Neurotransmitters (Adeghate, E. (3) 270)

In situ hybridization; Double labelling; Autoradiography; Hypothalamus; Neuronal plasticity (Fetissov, S.O. (4) 36)

Brain; Cytokine; In situ hybridization; Macrophage migration inhibitory factor (Suzuki, T. (4) 271)

Injury
Cryogenic; Growth factor (Cook, J.L. (3) 1)

In situ hybridization
Histochemistry; Gene expression; mRNA; PCR; cRNA; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

Reelin; Neurotrophic factor; Immunocytochemistry (Pesold, C. (3) 155)

CD44; Paraffin-embedded section; Brain neoplasms (Suzuki, S.O. (4) 29)

Immunohistochemistry; Double labelling; Autoradiography; Hypothalamus; Neuronal plasticity (Fetissov, S.O. (4) 36)

Oligonucleotide; Central nervous system (Erdtmann-Vourliotis, M. (4) 82)

Brain; Cytokine; Immunohistochemistry; Macrophage migration inhibitory factor (Suzuki, T. (4) 271)

Interfaced superfusion chamber
In vitro ischemia; Brain slice; Neurotransmitter release; Postischemic responsivity (Sbrenna, S. (3) 61)

Interspike interval
Burst order; Autocorrelogram; GFAP immunohistochemistry (Miasnikov, A.A. (4) 49)

Intracellular recording and staining
Optical imaging; Three-dimensional neuron reconstruction; Orientation selectivity (Buzás, P. (3) 199)

Intracerebroventricular self-administration
Free-choice; Opiates; Rat (Braida, D. (3) 135)

Invertebrate
Cephalopod; Central nervous system dissection; Choline acetyltransferase; Cholinesterase; Enzymatic assay (Bellanger, C. (3) 68)

In vitro ischemia
Brain slice; Neurotransmitter release; Postischemic responsivity; Interfaced superfusion chamber (Sbrenna, S. (3) 61)

In vitro isolated brain preparation
Cortical spreading depression; Epileptogenesis; Neuronal activity; Vascular tone (De Curtis, M. (3) 221)

Iodination
Neurotrophin; Retrograde axonal transport; Superior cervical ganglion; Bioassay (Reynolds, A.J. (3) 308)

Iodothyronine extraction
Thyroid hormone; RIA; Radio-labeling; Subcellular fractions (Pinna, G. (4) 19)

Iontophoresis
Cell filling; Neural tracing; Dendrite; DiI; DiO (Prusky, G. (3) 313)

Ischemia (reversible)
Cochlear blood flow; Distortion product otoacoustic emission; Cochlear potential; Mongolian gerbil (Mom, T. (4) 249)

Ischemic neuronal death
Cerebral blood flow; Cerebral infarction; Animal model (Yanamoto, H. (3) 209)

K

Kainic acid
Hypoxia preconditioning; Seizure; Neuroprotection; Brain edema; Specific gravity (Emerson, M.R. (4) 360)

L

Language lateralization
MRI; Association cortex; Brodmann's area; Sylvian fissure; Planum temporale (Doherty, C.P. (4) 1)

Laser-Doppler flowmetry
Neurophysiology; Cranial window; Cerebral blood flow (Gerrits, R.J. (3) 14)

Light and electron microscopical enzyme histochemistry
Extracellular ATP; Ecto-ATPase; Synaptic transmission; Purinergic neuromodulation; Signal transduction (Zinchuk, V.S. (4) 258)

Lithium
Methamphetamine; Reverse tolerance; Ambulatory activity; c-Fos expression; Striatum; Geniculate nucleus (Namima, M. (4) 11)

Lordosis
Sexual behavior; Sexual motivation; Partner-preference; Proceptive behavior; Rat (Avitsur, R. (3) 320)

M

Macrophage migration inhibitory factor
Brain; Cytokine; Immunohistochemistry; In situ hybridization (Suzuki, T. (4) 271)

Magnetic resonance imaging
Auditory cortex; Microchiroptera; Echolocation; Communication (Kamada, K. (4) 351)

Magnetic resonance spectroscopy
Cerebrospinal fluid; Neurometabolism; Routine analysis (Maillet, S. (3) 123)

Metabolism
Neuron; NMR spectroscopy; Basement membrane gel thread; Immobilization; Cell culture (Brand, A. (3) 183)

Methamphetamine
Lithium; Reverse tolerance; Ambulatory activity; c-Fos expression; Striatum; Geniculate nucleus (Namima, M. (4) 11)

Mexiletine
Chick retina; Development; Immunocytochemistry; Organotypic roller culture; Photoreceptor; Radial Müller glia; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Microchiroptera
Auditory cortex; Magnetic resonance imaging; Echolocation; Communication (Kamada, K. (4) 351)

Microdialysis
Hydrogen peroxide; Dichlorofluorescin; Cerebral ischemia; Hippocampus; Mongolian gerbil (Lei, B. (3) 33)

Anoxia; Immature brain; Dopamine; Monoamine (Nakajima, W. (3) 252)

Microelectrodes
Extracellular recording; Chronic implants (Williams, J.C. (4) 303)

Microinjection system
Brain development; Fluorescent tracing; Thalamo-cortical connection (Sbriccoli, A. (3) 257)

Microscope
Vibratome; Brain slice; Tissue section; Microtome; Vibrating blade; Spinal cord; Motor neurons (Prusky, G.T. (3) 302)

Microtome
Vibratome; Brain slice; Tissue section; Vibrating blade; Microscope; Spinal cord; Motor neurons (Prusky, G.T. (3) 302)

Microtubule-associated protein 2
Neurodegeneration; Neurotoxicity mapping; Cell death; Propidium iodide (Noraberg, J. (3) 278)

Migration
Organotypic; Proliferation; Apoptosis; Neocortex (Haydar, T.F. (4) 425)

Milligram
Auditory brainstem; Cochlear nucleus; trkB; Western blotting (Suneja, S.K. (3) 88)

Minigene
Alternative splicing; RT-PCR; Transfection (Stoss, O. (4) 383)

Mitochondria
Reactive oxygen species; Antioxidant; Neuron; Flow cytometry; Glutamate (Sureda, F.X. (4) 280)

Mitochondrial oxidative phosphorylation
Hippocampal slice; Hippocampal subfield (Kudin, A. (4) 329)

Mitochondrial respiration
Cerebral cortex; Electron paramagnetic resonance spectroscopy; Esterase; Excitatory amino acid (Begley, J.G. (3) 76)

Mobile microelectrode
Contracting tissue; Spontaneous postsynaptic potential; Electrophysiology (Kunze, W.A.A. (3) 94)

Mongolian gerbil
Hydrogen peroxide; Dichlorofluorescin; Microdialysis; Cerebral ischemia; Hippocampus (Lei, B. (3) 33)

Ischemia (reversible); Cochlear blood flow; Distortion product otoacoustic emission; Cochlear potential (Mom, T. (4) 249)

Cerebral ischemia; Nitric oxide; Striatum (Lei, B. (4) 415)

Monoamine
Anoxia; Immature brain; Microdialysis; Dopamine (Nakajima, W. (3) 252)

Morris water maze
Behavioral neurobiology; Traumatic brain injury; Cortical contusion; Diffuse axonal injury (Yamaki, T. (3) 100)

Motoneuron
Neural gene expression; HPRT; Brain primary culture; Dopaminergic neuron; Neurological mutant (Pernas-Alonso, R. (4) 395)

Motor cortex excitability
Focal magnetic stimulation; Stroke; Plasticity (Traversa, R. (4) 44)

Motor neurons
Vibratome; Brain slice; Tissue section; Microtome; Vibrating blade; Microscope; Spinal cord (Prusky, G.T. (3) 302)

MRI
Language lateralization; Association cortex; Brodmann's area; Sylvian fissure; Planum temporale (Doherty, C.P. (4) 1)

N

Nearest neighbor
Pattern analysis; Software; Runs test; Electron microscopy; Cell culture (Baader, S.L. (3) 173)

Neocortex
Organotypic; Proliferation; Migration; Apoptosis (Haydar, T.F. (4) 425)

Neural gene expression
HPRT; Brain primary culture; Dopaminergic neuron; Motoneuron; Neurological mutant (Pernas-Alonso, R. (4) 395)

Neural tracing
Cell filling; Dendrite; DiI; DiO; Iontophoresis (Prusky, G. (3) 313)

Neurodegeneration
Neurotoxicity mapping; Cell death; Propidium iodide; Microtubule-associated protein 2 (Noraberg, J. (3) 278)

Neurological mutant
Neural gene expression; HPRT; Brain primary culture; Dopaminergic neuron; Motoneuron (Pernas-Alonso, R. (4) 395)

Neurometabolism
Magnetic resonance spectroscopy; Cerebrospinal fluid; Routine analysis (Maillet, S. (3) 123)

Neuron
NMR spectroscopy; Metabolism; Basement membrane gel thread; Immobilization; Cell culture (Brand, A. (3) 183)

Mitochondria; Reactive oxygen species; Antioxidant; Flow cytometry; Glutamate (Sureda, F.X. (4) 280)

Neuronal activity
Cortical spreading depression; Epileptogenesis; In vitro isolated brain preparation; Vascular tone (De Curtis, M. (3) 221)

Neuronal plasticity
In situ hybridization; Immunohistochemistry; Double labelling; Autoradiography; Hypothalamus (Fetissov, S.O. (4) 36)

Neuronal tract-tracing technique
Biocytin; Dextran–tetramethylrhodamine; 5-Bromo-2′deoxyuridine; Somatostatin (Zupanc, G.K.H. (3) 37)

Neuropeptides
Electrical field stimulation; Protein assay; On-line automated technique; Electrical field stimulation; Neurotransmitters; Immunohistochemistry (Adeghate, E. (3) 270)

Neurophysiology
Cranial window; Cerebral blood flow; Laser-Doppler flowmetry (Gerrits, R.J. (3) 14)

Neuroprotection
Hypoxia preconditioning; Kainic acid; Seizure; Brain edema; Specific gravity (Emerson, M.R. (4) 360)

Neurotoxicity
Foetal alcohol syndrome; Thalamo-cortical connection; Sensorimotor cortex; Rat; Tract-tracing technique (Sbriccoli, A. (3) 264)

Neurotoxicity mapping
Neurodegeneration; Cell death; Propidium iodide; Microtubule-associated protein 2 (Noraberg, J. (3) 278)

Neurotransmitter release
In vitro ischemia; Brain slice; Postischemic responsivity; Interfaced superfusion chamber (Sbrenna, S. (3) 61)

Neurotransmitters
Electrical field stimulation; Protein assay; On-line automated technique; Electrical field stimulation; Neuropeptides; Immunohistochemistry (Adeghate, E. (3) 270)

Neurotrophic factor
Reelin; In situ hybridization; Immunocytochemistry (Pesold, C. (3) 155)

Neurotrophin
Retrograde axonal transport; Iodination; Superior cervical ganglion; Bioassay (Reynolds, A.J. (3) 308)

Nicotinic acetylcholine receptor
Quantitation; mRNA; Non-radioactive RT-PCR; CCD camera; Postmortem human brain (Utsugisawa, K. (4) 92)

Nitric oxide
Cerebral ischemia; Striatum; Mongolian gerbil (Lei, B. (4) 415)

NMDA receptor
Splice variant; Gene expression; Competitive RT-PCR; Rat brain (Winkler, A. (4) 69)

Cholinergic neuron; AF64A; GABA receptor; Striatum (Ikarashi, Y. (4) 378)

NMR spectroscopy
Neuron; Metabolism; Basement membrane gel thread; Immobilization; Cell culture (Brand, A. (3) 183)

Non-radioactive RT-PCR
Nicotinic acetylcholine receptor; Quantitation; mRNA; CCD camera; Postmortem human brain (Utsugisawa, K. (4) 92)

Northern
High-energy microwave irradiation; Adenosine; mRNA integrity; RT-PCR (Mayne, M. (4) 295)

NT-3
Quantitative RT-PCR; Coamplification; Endogenous internal standard gene (Tokuyama, W. (4) 407)

Nuclear magnetic resonance
Brain slice (Gasparovic, C. (4) 97)

O

Olfactory bulb
Olfactory tubercle; Transsynaptic transport; Ventral striatum; Artificial neural networks (Josephson, E. (3) 161)

Olfactory marker protein
β-galactosidase; β-gal histochemistry; β-gal immunohistochemistry; *GAD67* gene; Graft (Sekerková, G. (3) 107)

Olfactory tubercle
Olfactory bulb; Transsynaptic transport; Ventral striatum; Artificial neural networks (Josephson, E. (3) 161)

Oligonucleotide
In situ hybridization; Central nervous system (Erdtmann-Vourliotis, M. (4) 82)

On-line automated technique
Electrical field stimulation; Protein assay; Electrical field stimulation; Neuropeptides; Neurotransmitters; Immunohistochemistry (Adeghate, E. (3) 270)

Ontogeny
Development; Adrenergic receptor; Riboprobe (Winzer-Serhan, U.H. (3) 229)

Opiates
Intracerebroventricular self-administration; Free-choice; Rat (Braida, D. (3) 135)

Optical imaging
Intracellular recording and staining; Three-dimensional neuron reconstruction; Orientation selectivity (Buzás, P. (3) 199)

Organotypic
Proliferation; Migration; Apoptosis; Neocortex (Haydar, T.F. (4) 425)

Organotypic roller culture
Chick retina; Development; Immunocytochemistry; Mexiletine; Photoreceptor; Radial Müller glia; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Orientation selectivity
Optical imaging; Intracellular recording and staining; Three-dimensional neuron reconstruction (Buzás, P. (3) 199)

Oxidative stress
ROS; Cultured neuron; Glutamate neurotoxicity (Atlante, A. (4) 266)

P

Pain
Wind-up; Synaptic plasticity; Trigeminal caudalis; Potentiation of excitatory postsynaptic potential (Hamba, M. (3) 7)

Paraffin-embedded section
In situ hybridization; CD44; Brain neoplasms (Suzuki, S.O. (4) 29)

Partner-preference
Sexual behavior; Sexual motivation; Proceptive behavior; Lordosis; Rat (Avitsur, R. (3) 320)

Pattern analysis
Software; Runs test; Nearest neighbor; Electron microscopy; Cell culture (Baader, S.L. (3) 173)

PCR
In situ hybridization; Histochemistry; Gene expression; mRNA; cRNA; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

Photoreceptor
Chick retina; Development; Immunocytochemistry; Mexiletine; Organotypic roller culture; Radial Müller glia; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Planum temporale
MRI; Language lateralization; Association cortex; Brodmann's area; Sylvian fissure (Doherty, C.P. (4) 1)

Plasticity
Motor cortex excitability; Focal magnetic stimulation; Stroke (Traversa, R. (4) 44)

Polymerase chain reaction
5-HT_{1B} receptor mRNA; Brain; Rat; RNase protection assay (Drogou, C. (4) 322)

Postischemic responsivity
In vitro ischemia; Brain slice; Neurotransmitter release; Interfaced superfusion chamber (Sbrenna, S. (3) 61)

Postmortem human brain
Nicotinic acetylcholine receptor; Quantitation; mRNA; Non-radioactive RT-PCR; CCD camera (Utsugisawa, K. (4) 92)

Potentiation of excitatory postsynaptic potential
Pain; Wind-up; Synaptic plasticity; Trigeminal caudalis (Hamba, M. (3) 7)

Proceptive behavior
Sexual behavior; Sexual motivation; Partner-preference; Lordosis; Rat (Avitsur, R. (3) 320)

Proliferation
Organotypic; Migration; Apoptosis; Neocortex (Haydar, T.F. (4) 425)

Promoter
Transgenic mouse; *lacZ* (Schmidt, A. (3) 54)

Propidium iodide
Neurodegeneration; Neurotoxicity mapping; Cell death; Microtubule-associated protein 2 (Noraberg, J. (3) 278)

Protein assay
Electrical field stimulation; On-line automated technique; Electrical field stimulation; Neuropeptides; Neurotransmitters; Immunohistochemistry (Adeghate, E. (3) 270)

Purine
Pyrimidine; HPLC; Cortical slice; Cortical neuron and astrocyte (Pissarek, M. (4) 314)

Purinergic neuromodulation
Extracellular ATP; Ecto-ATPase; Light and electron microscopical enzyme histochemistry; Synaptic transmission; Signal transduction (Zinchuk, V.S. (4) 258)

Pyrimidine
Purine; HPLC; Cortical slice; Cortical neuron and astrocyte (Pissarek, M. (4) 314)

Q

Quantitation
Nicotinic acetylcholine receptor; mRNA; Non-radioactive RT-PCR; CCD camera; Postmortem human brain (Utsugisawa, K. (4) 92)

Quantitative RT-PCR
NT-3; Coamplification; Endogenous internal standard gene (Tokuyama, W. (4) 407)

R

3′-RACE-PCR
5′-RACE-PCR; cDNA cloning; GRK6 (Fehr, C. (3) 242)

5′-RACE-PCR
3′-RACE-PCR; cDNA cloning; GRK6 (Fehr, C. (3) 242)

Radial Müller glia
Chick retina; Development; Immunocytochemistry; Mexiletine; Organotypic roller culture; Photoreceptor; Scanning electron microscopy; Toxicity (Hoff, A. (4) 237)

Radioactive
In situ hybridization; Histochemistry; Gene expression; mRNA; PCR; cRNA; Digoxigenin (Kerner, J.A. (3) 22)

Radio-labeling
Thyroid hormone; Iodothyronine extraction; RIA; Subcellular fractions (Pinna, G. (4) 19)

Rat
Intracerebroventricular self-administration; Free-choice; Opiates (Braida, D. (3) 135)

Foetal alcohol syndrome; Thalamo-cortical connection; Sensorimotor cortex; Neurotoxicity; Tract-tracing technique (Sbriccoli, A. (3) 264)

Sexual behavior; Sexual motivation; Partner-preference; Proceptive behavior; Lordosis (Avitsur, R. (3) 320)

5-HT_{1B} receptor mRNA; Brain; RNase protection assay; Polymerase chain reaction (Drogou, C. (4) 322)

Rat brain
NMDA receptor; Splice variant; Gene expression; Competitive RT-PCR (Winkler, A. (4) 69)

Reactive oxygen species
Mitochondria; Antioxidant; Neuron; Flow cytometry; Glutamate (Sureda, F.X. (4) 280)

Reelin
Neurotrophic factor; In situ hybridization; Immunocytochemistry (Pesold, C. (3) 155)

Reflex analysis
Conditioning; Electromyography; Human (Van der Glas, H.W. (3) 291)

Retina
Apoptosis; Histology; Immunohistochemistry (Seigel, G.M. (3) 119)

Retrograde axonal transport
Neurotrophin; Iodination; Superior cervical ganglion; Bioassay (Reynolds, A.J. (3) 308)

Reverse tolerance
Lithium; Methamphetamine; Ambulatory activity; c-Fos expression; Striatum; Geniculate nucleus (Namima, M. (4) 11)

RIA
Thyroid hormone; Iodothyronine extraction; Radio-labeling; Subcellular fractions (Pinna, G. (4) 19)

Riboprobe
Development; Adrenergic receptor; Ontogeny (Winzer-Serhan, U.H. (3) 229)

cRNA
In situ hybridization; Histochemistry; Gene expression; mRNA; PCR; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

mRNA
In situ hybridization; Histochemistry; Gene expression; PCR; cRNA; Digoxigenin; Radioactive (Kerner, J.A. (3) 22)

Nicotinic acetylcholine receptor; Quantitation; Non-radioactive RT-PCR; CCD camera; Postmortem human brain (Utsugisawa, K. (4) 92)

mRNA integrity
High-energy microwave irradiation; Adenosine; Northern; RT-PCR (Mayne, M. (4) 295)

RNase protection assay
5-HT_{1B} receptor mRNA; Brain; Rat; Polymerase chain reaction (Drogou, C. (4) 322)

ROS
Cultured neuron; Glutamate neurotoxicity; Oxidative stress (Atlante, A. (4) 266)

Routine analysis
Magnetic resonance spectroscopy; Cerebrospinal fluid; Neurometabolism (Maillet, S. (3) 123)

RT–PCR
Glutamate; AMPA receptor; Subunit; Splicing; Editing; Co^{2+} uptake (Lee, J.C. (3) 142)

RT-PCR
High-energy microwave irradiation; Adenosine; mRNA integrity; Northern (Mayne, M. (4) 295)

Alternative splicing; Minigene; Transfection (Stoss, O. (4) 383)

Runs test
Pattern analysis; Software; Nearest neighbor; Electron microscopy; Cell culture (Baader, S.L. (3) 173)

RVL
Single-cell RT–PCR; Acute dissociation; C1 adrenergic neuron (Comer, A.M. (4) 367)

S

Scanning electron microscopy
Chick retina; Development; Immunocytochemistry; Mexiletine; Organotypic roller culture; Photoreceptor; Radial Müller glia; Toxicity (Hoff, A. (4) 237)

Seizure
Hypoxia preconditioning; Kainic acid; Neuroprotection; Brain edema; Specific gravity (Emerson, M.R. (4) 360)

Sensorimotor cortex
Foetal alcohol syndrome; Thalamo-cortical connection; Rat; Neurotoxicity; Tract-tracing technique (Sbriccoli, A. (3) 264)

Sexual behavior
Sexual motivation; Partner-preference; Proceptive behavior; Lordosis; Rat (Avitsur, R. (3) 320)

Sexual motivation
Sexual behavior; Partner-preference; Proceptive behavior; Lordosis; Rat (Avitsur, R. (3) 320)

Signal transduction
Extracellular ATP; Ecto-ATPase; Light and electron microscopical enzyme histochemistry; Synaptic transmission; Purinergic neuromodulation (Zinchuk, V.S. (4) 258)

Single-cell RT–PCR
Acute dissociation; C1 adrenergic neuron; RVL (Comer, A.M. (4) 367)

Software
Pattern analysis; Runs test; Nearest neighbor; Electron microscopy; Cell culture (Baader, S.L. (3) 173)

Somatostatin
Neuronal tract-tracing technique; Biocytin; Dextran–tetramethylrhodamine; 5-Bromo-2′deoxyuridine (Zupanc, G.K.H. (3) 37)

Specific gravity
Hypoxia preconditioning; Kainic acid; Seizure; Neuroprotection; Brain edema (Emerson, M.R. (4) 360)

Spinal cord
Vibratome; Brain slice; Tissue section; Microtome; Vibrating blade; Microscope; Motor neurons (Prusky, G.T. (3) 302)

Splice variant
NMDA receptor; Gene expression; Competitive RT-PCR; Rat brain (Winkler, A. (4) 69)

Splicing
Glutamate; AMPA receptor; Subunit; Editing; RT–PCR; Co^{2+} uptake (Lee, J.C. (3) 142)

Spontaneous postsynaptic potential
Mobile microelectrode; Contracting tissue; Electrophysiology (Kunze, W.A.A. (3) 94)

Striatum
Lithium; Methamphetamine; Reverse tolerance; Ambulatory activity; c-Fos expression; Geniculate nucleus (Namima, M. (4) 11)

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Subcellular fractions
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Subcellular localization
γ-Aminobutyric acid; Transporter; Blood–brain barrier; Brain capillary; Brain capillary endothelial cells (Zhang, Y. (4) 288)

Subunit
Glutamate; AMPA receptor; Splicing; Editing; RT–PCR; Co^{2+} uptake (Lee, J.C. (3) 142)

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Sylvian fissure
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Synaptic plasticity
Pain; Wind-up; Trigeminal caudalis; Potentiation of excitatory postsynaptic potential (Hamba, M. (3) 7)

Synaptic transmission
Extracellular ATP; Ecto-ATPase; Light and electron microscopical enzyme histochemistry; Purinergic neuromodulation; Signal transduction (Zinchuk, V.S. (4) 258)

T

Thalamo-cortical connection
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Foetal alcohol syndrome; Sensorimotor cortex; Rat; Neurotoxicity; Tract-tracing technique (Sbriccoli, A. (3) 264)

Three-dimensional neuron reconstruction
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Thyroid hormone
Iodothyronine extraction; RIA; Radio-labeling; Subcellular fractions (Pinna, G. (4) 19)

Tissue section
Vibratome; Brain slice; Microtome; Vibrating blade; Microscope; Spinal cord; Motor neurons (Prusky, G.T. (3) 302)

Toxicity
Chick retina; Development; Immunocytochemistry; Mexiletine; Organotypic roller culture; Photoreceptor; Radial Müller glia; Scanning electron microscopy (Hoff, A. (4) 237)

Tract-tracing technique
Foetal alcohol syndrome; Thalamo-cortical connection; Sensorimotor cortex; Rat; Neurotoxicity (Sbriccoli, A. (3) 264)

Transfection
Alternative splicing; Minigene; RT-PCR (Stoss, O. (4) 383)

Transgenic mouse
lacZ; Promoter (Schmidt, A. (3) 54)

Transporter
γ-Aminobutyric acid; Subcellular localization; Blood–brain barrier; Brain capillary; Brain capillary endothelial cells (Zhang, Y. (4) 288)

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Wind-up
Pain; Synaptic plasticity; Trigeminal caudalis; Potentiation of excitatory postsynaptic potential (Hamba, M. (3) 7)

Z

lacZ
Transgenic mouse; Promoter (Schmidt, A. (3) 54)

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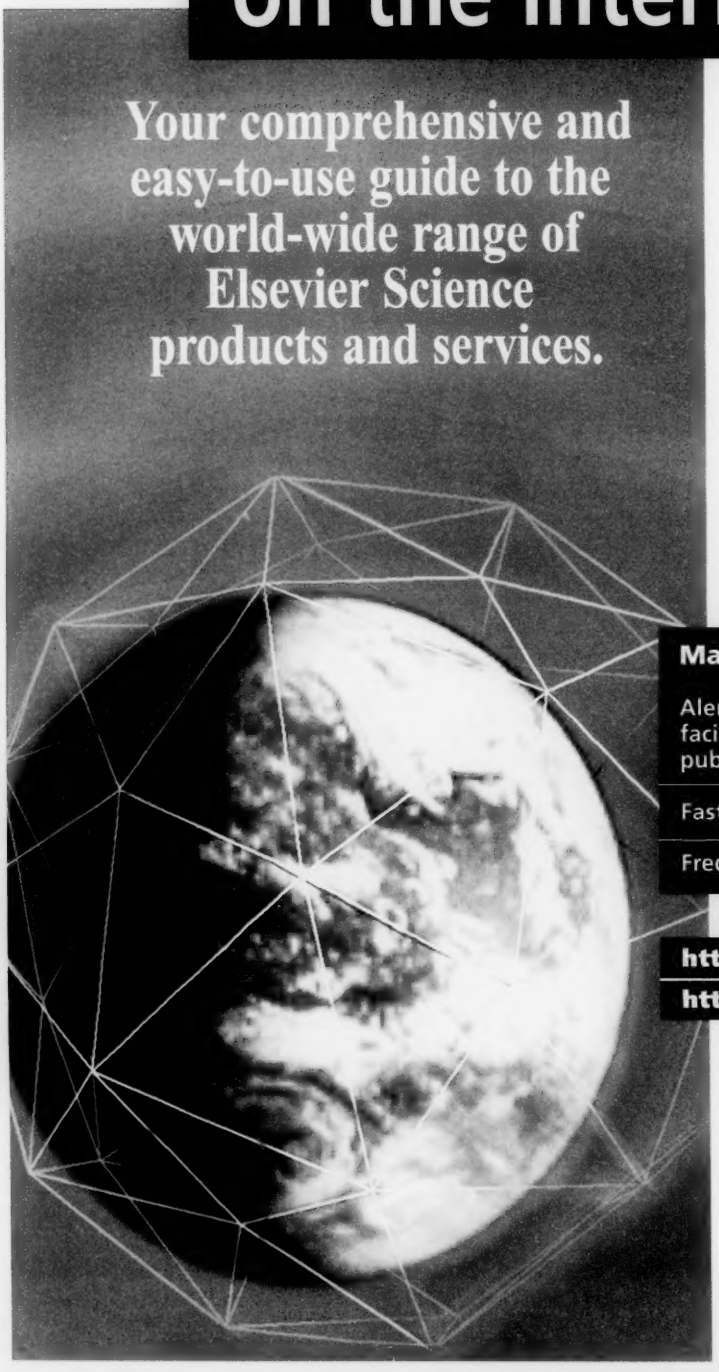

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